INSPECTION TRACKING REPORT

INSPECTION DATE: 01/20/16
INSPECTION TYPE: AG
COMPLAINT NO:
BUSINESS NAME: **Syngenta Hawaii, LLC**
PHONE: 337-1408
ADDRESS: P.O. Box 823
CITY: Kekaha
ST: HI
ZIP: 96752

INSPECTOR: Ann Kam
INTERVIEWEE: Emilee Wedekind, Joshua Uyehara
APPLICATOR: Eddie Gutierrez
CERT NO.: K51479
CROP/SITE: corn

INSPECTOR COMMENTS: Early entry of 19 workers into field 312-A25 during an active REI. 10 workers taken to hospital.
TRANSFER DATE: 02/05/16

SAMPLE NO	PESTICIDE-CHEMICAL/EPA REG. NO.	SUSPECTED VIOLATION(S)
	Lorsaban Advance / 62719-591	WPS - early entry and transportation to hospital

COMMENTS: Syngenta staff failed to identify contract workers that needed to go to hospital and did not provide transportation to 8 workers from Global Ag to hospital.

Permethrin / 34704-873

COMMENTS:

COMMENTS:

CASE PREPARATION

CASE RECEIVED:
CASE REVIEWED:
VIOLATION(S):

ENFORCEMENT ACTION & DATE: None

PREP COMMENTS:

CIVIL PENALTY

DOCKET NO:
PROPOSED AMOUNT:
OTHER:

CHAIRPERSON REVIEW:
☐ CHAIRPERSON APPROVED
DATE NOV SENT TO AG:
☐ NOV APPROVED BY AG
NOV DATE:
HEARING DATE:
DATE CA SENT TO AG:
DATE RETURNED:
☐ CA APPROVED BY AG
RESPONDENT:
DATE SIGNED:
CONSENT DATE:

SETTLED AMOUNT:
☐ SINGLE PAYMENT
☐ MULTIPLE PAYMENTS
TERMS:

OTHER PENALTY:

EPA REFERRAL DATE:
DATE CLOSED:

CIVIL COMMENTS:

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

INSPECTOR'S NARRATIVE REPORT

On 01-20-16, I met with Mr. Robin Robinson, Agronomy Manager, and Ms. Emilee Wedekind, IPM Coordinator at Syngenta Hawaii, LLC at 7050 Kaumualii Highway, Kekaha, Hawaii 96752. A Notice of Pesticide Use/Misuse Inspection was issued to Wedekind and we were proceeding to start a complaint investigation for complaint no. KA-16-01 when Wedekind received a call. At 9:05AM, Wedekind was informed that several workers had entered into a field with an active restricted entry interval (REI). Wedekind apologized that she needed to leave and help with the situation. Wedekind asked if I wanted to accompany her.

I followed Wedekind to the supply room where she gathered paper towels, soap and tyvek suits. We briefly met Mr. Arthur Brun, Third Party Coordinator, who then left the area. Soon after, we met with Mr. Jeremy Hausam, Health Safety Environmental (HSE) and Security Lead, and Robinson. Wedekind and Hausam discussed the situation and decided to drive to the field to access the situation. Wedekind took me to the central notification site (CNS) and showed me the pesticide information posted for field 312-A25.

I was informed by Wedekind that Mr. Phil Kali, Associate Scientist, oversaw the activity of this group. I introduced myself to Kali and told him that at some point, he would need to provide a list of all workers involved in this incident to me. This information was never provided to me from Kali on 01-20-16.

At approximately 9:33AM, we arrived at the break station near field 312. A large group of field workers were told by Mr. Arthur Brun, Third Party Coordinator, that they would need to put on Tyvek suits and be decontaminated because they walked into a field with an active REI. Several workers were smoking cigarettes and/or drinking beverages, including Mr. Cullen Rapozo, Research Tech III and acting Research Associate. I told him that he should not be drinking a beverage if he did not wash his hands. Rapozo said, "I wasn't in the field". I told Hausam that no one should be smoking, eating or drinking if they did not wash their hands with soap and water and before they are decontaminated. Hausam addressed the workers.

Wedekind, Robinson and I left the group and drove to field 312-A25 to look at the field sign. The sign was "closed" and had the pink pesticide application information posted at the top right of the sign with the REI expiration written "01/20/16 12:51PM". Wedekind "opened" the field sign so that it was properly posted. We noticed that a rental car was parked at the sign and waited for the Mr. Al Mousel, Breeder, to return to his car. We questioned him if he entered field 312-A25 and he said "no, the REI was still active."

We returned to the field break station and picked up Hausam and headed back to the accessory building where the field workers were to be brought to for decontamination. The accessory building houses the three large Hagie sprayers and is used for pesticide storage and handler decontamination.

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

I questioned why they had the workers put on tyvek suits over clothing that was possibly contaminated and explained that clean clothing should be provided to workers after they remove contaminated clothing and shower.

Three showers were made available at the accessory building. One shower was located in a bathroom / locker room setting that the pesticide handlers use daily. The other two showers were makeshift at the emergency shower sites in the accessory building: one was located near the mixing and loading site and the second was located in the pesticide storage room. Workers were provided with soap, single use towels and clean Tyvek suits. Workers were instructed to remove all clothing and shoes and socks and place the "contaminated" items into a trash bag. Several workers were walking around barefoot after their showers before booties were provided to them.

I interviewed all field workers that were waiting to decontaminate. I asked a series of questions: 1. What is your name? 2. How long have you been working here? 3. Who is the crew leader today? 4. Were you in field 312-A25? I realized that there were several of workers that were not in field 312-A25 and were going thru decontamination. I informed Wedekind of this and she said Hausam said that all workers would be decontaminated because they all sat next to each other in the van. I also suggested that they identify who entered field 312-A25 and get them decontaminated first. Most of these workers had only worked for a few days and most of them did not know who the crew lead was, they were just following the flow of the work. I was told that workers that needed to be taken to the hospital were being driven by Mr. Matthew McClallen, Research Tech. I saw McClallen and interviewed him quickly as he waited for the decontaminated workers. McClallen said he was not in charge of the crew that entered field 312-A25 and he was helping out with row bands when the incident happened. McClallen said he was shuttling people to the hospital.

I interviewed a total of thirty-five workers at the accessory building.

I interviewed Mr. Jerry Kanahele, Crew Lead, and collected an attestation from him. Kanahele explained that while putting out row bands in 312-A21-23, he had a left-over roll of row bands within 312A-23, so he gave the rest of those bands to [redacted], Crew Lead, to help layout bands so he could complete laying out row bands in field 312-A21. [redacted] was given the field bands for field 312-A25. On 01-20-16, [redacted] stated that he saw the field sign closed and proceeded to lay the field bands in field 312-A25. On 01-29-16, [redacted] contradicted his initial statement and stated that he read the field sign at field 312-A25 before laying out the row bands in field 312-A25. Kanahele explained that when he finished laying out 312-A21-22, he had row bands for 312-A26, so he walked to field 312-A26 and read the posted field sign. Kanahele said Field 312A-26 had an REI that expired at about 12:00PM on the 20th. Kanahele said he double checked his phone for the date and time and walked back. As he was passing the field sign posted at field 312-A25, he glanced at the REI and it had the same information as the sign posted at 26. Kanahele said by the time he noticed the sign up and closed, people were already coming out of the field. Kanahele said he notified his bosses, Rapozo and McClallen, and got the workers to decontamination (decon). Kanahele said on the morning of 01-20-16, he got his work orders from his

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

boss, Cullen Rapozo, who got it from Philip Kali. Kanahele said he did not enter field 312-A25. Kanahele provided an attestation.

I interviewed Rapozo. Rapozo said he has worked at Syngenta for 7 years. Rapozo said he was in charge of the crew involved with early entry into field 312-A25. Rapozo explained on 01-20-16, he got the row bands from Kali and he assigned the work for the day. Rapozo said he did not initially go out with the crew because he had to send an email. Rapozo said he gave the row bands to Kanahele. Rapozo said when he got to the field the row bands were all over the place. Rapozo said Kanahele complained about the row bands and asked for his help. Rapozo said he and McClallen organized the row bands for Kanahele on the tailgate of the truck that was parked in front of Field 312-A22. Rapozo said Kanahele came back and explained that they messed up. Rapozo said Kanahele said, "Section 312-A25 was sprayed and everyone is in there." Kanahele said he checked the sign that was "closed" and the REI had not expired. Rapozo said he called Kali. Rapozo said Kali said to gather everyone and take them to the accessory building. Rapozo said he gathered everyone to be deconned because he did not know exactly who was in section 312-A25. Rapozo explained that Kanahele is his head lead under him and there are four leads under Kanahele; Syngenta workers, [redacted] and [redacted], HI Employment employee, [redacted] and Global Ag employee, [redacted] Rapozo said [redacted], [redacted], [redacted] and [redacted] are individuals able to put signs "up" at the fields. Putting signs "up" means they are closing the warning signs and saying the field is safe for entry. Rapozo provided an attestation.

I interviewed Kali. Kali said he is the overall coordinator and is in charge of "version tests" and requests the row bands. Kali explained that every Friday he has a meeting with Wedekind to discuss what fields need to be sprayed and Wedekind provides him with the spray schedule for the following week. Kali said Monday mornings he gives a list to his leads of the work that needs to be completed that week. Kali said he prints the row bands by trials and the row bands that were provided to Rapozo on 01-20-16 had fields under active REI's, including bands for 25 and 26 even though those fields were not in the work order. Kali said he has worked at Syngenta for 15 years and this is the second incident that he has been involved in that workers entered a field prior to the REI expiring. Kali said his boss is Mr. Carl Hamrick, Scientist – Nursery Field Projects. I was informed by Robinson that Hamrick has been at Syngenta's Kekaha facility for 1 year.

Kali explained his responsibilities are to coordinate with his leads, Rapozo & McClallen, on what needs to get done within a project from start to finish. Kali provided a flow chart showing the chain-of-command from him to third-party field workers. Kali explained on 01-20-16, he received a call from Rapozo between 8:00AM – 9:00AM stating he has a problem, that some of his crew went into a field prior to the REI expiring. Kali said he called Brun and instructed the group to meet him at the break area since they were already in the vans. Kali said he arrived at the field break area with Brun and brought trash bags and Tyvek suits. Kali said it was then decided and instructed that everyone had to be shuttled to the accessory building for decontamination. Kali said after decontamination, individuals feeling sick were shuttled to the Kauai Veteran's Memorial Hospital (KVMH) and the rest were provided statements and given lunch and sent home for the day. Kali provided an attestation.

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

On 01-20-16, I departed Syngenta at 2:30PM.

On 01-21-16, Ms. Mary Grisier, Life Scientist, U.S. Environmental Protection Agency (EPA) Region 9, Pesticides Office, was informed by email, of the incident at Syngenta.

On 01-21-16, I returned to Syngenta to conduct the complaint inspection (KA-16-01) that was scheduled for 01-20-16 with Wedekind and Robinson. Hausam confirmed that ten workers were taken to the hospital on 01-20-16; nine were from Global Ag Services, Inc. and one was from HI Employment. One individual was in the ICU (intensive care unit) and three were kept overnight. The attending physician was Dr. Fukino.

On 01-21-16, I spoke with Mr. Robert "Bitos" Gandia, Staffing Site Manager for Global Ag Services, Inc. (Global Ag). Gandia confirmed the information that Hausam provided and scheduled to meet with me on 01-28-16.

On 01-22-16, I reported the incident to Dr. Barbara Brooks, Toxicologist with the State of Hawaii – Department of Health. A total of thirty-five field workers were decontaminated, regardless whether they entered Field 312-A25. Ten workers were taken to the hospital.

On 01-28-16, I called Grisier and updated her on the investigation and answered her questions.

On 01-28-16, 12:29PM, I met with Gandia, at Global Ag's office located at 9555 Kaumualii Highway, Suite 102, Waimea, Hawaii 96796. Gandia was issued a Notice of Pesticide Use/Misuse Inspection and was interviewed. Gandia said on 01-20-16, at approximately 9:15AM – 9:30AM, he received a text from Ms. Annette Perreira, HR & Staffing Manager for Global Ag. The text was alerting him to the incident at Syngenta and to come and assist her. Gandia said Perreira was alerted by Brun that "your employees entered a field with an active REI." Gandia explained that when he got to Syngenta Global Ag employees were going thru decontamination. Gandia said Brun told him that he needed to take his employees that felt they needed medical attention to the emergency room. Gandia said, at around 11:00AM, he went to the tent where people who went through decontamination were sitting and asked who from Global Ag needed to go to the emergency room; seven people raised their hands, so he took them to the emergency room. Gandia said Hausam provided SDS sheets of the pesticides that were sprayed and called the emergency room (ER) to let them know they were in route. Gandia said he dropped off the group and returned to Syngenta to pick up one more person. Gandia provided a list of the nine Global Ag workers that went to KVMH. The list named:

1. [redacted] – In ICU. Release same day with restrictions, back to work on Friday.
2. [redacted] – Stayed overnight, released next day, back to work on Monday.
3. [redacted] – Released later that day, back to work on Thursday.
4. [redacted] – Released later that day, cleared to work on Thursday.
5. [redacted] – Release later that day, cleared to work on Thursday.
6. [redacted] – Stayed overnight. Released next day, back to work on Monday.
7. [redacted] – Did not stay. Was released from ER, back to work on Thursday.

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752
Page 5

8. [redacted] – Stayed overnight. Released next day. Back to work on Friday.
9. [redacted] – Did not stay. Released from ER, back to work on Thursday.

Gandia provided an attestation.

[redacted] was the tenth individual taken to KVMH but was not on Gandia's list because she is an HI Employment employee.

Gandia said Perreira was asked to collect statements from all Global Ag workers that went to the ER. Gandia said he collected statements from all workers except from [redacted] because he was asleep. Gandia said statements collected from Global Ag workers on 01-20-16 were provided to Syngenta. Gandia said Mr. Joshua N.K. Uyehara, Hawaii Continuous Nursery Site Manager asked that Gandia go back and retake everyone's statements. Gandia said he refused, and Perreira and Brun went back later that evening to retake statements. Gandia provided copies of both statements collected to this inspector and asked that they be confidential. Gandia provided an attestation.

Gandia said after showering, workers were shuttled to a shaded area with tables at the front of the property and provided lunch. Any worker that wanted to be taken to the hospital was allowed to. Gandia said Arthur Brun told Global Ag to handle their own people.

On 01-28-16, 1:50PM, I met with Wedekind and Robinson and reviewed the application of Lorsban Advance (EPA Reg. No. 62719-591) and Permethrin (EPA Reg. No. 34704-873) to Kekaha Fields 312- A25, 312- A15-A20, 312- A26-A30, 312- B16-B27 and Field 313- B01. Wedekind said Mr. Eddie Gutierrez (Cert. No. K51479) mixed 4 gallons, 96 fluid ounces of Lorsban Advance, 114 fluid ounces of Permethrin, and 48 fluid ounces of Indicate 5 into 950 gallons of water.

Wedekind said Gutierrez wore chemical-resistant gloves, chemical-resistant apron, long pants, socks, rubber boots, dust mask, a long sleeved shirt, safety glasses and face shield while mixing and loading. Wedekind said Gutierrez used the Nitro Boom sprayer with drop nozzles for this application.

Wedekind said Gutierrez takes wind speed and direction readings with an anemometer prior to spraying each field. Wedekind said Mr. Alfred Balauro (Cert. No. K51474) worked with Gutierrez and posted field signs for the applications made on 01-19-16, using pink REI information stickers. Gutierrez and Balauro were not at work on the day of this inspection.

Wedekind said the 955-gallons of dilution was applied to 19 acres of corn to fields 312-A25, A15-A20, A26-A30, B16-B27, 313-B01, between 12:33PM – 1:42PM. Field 312-A25 was finished being sprayed at 12:57PM.

The Lorsban Advanced label has an REI of 24 hours unless PPE is worn.

Wedekind was asked to provide an attestation. Wedekind requested time to write her attestation. I provided her with a couple of attestation forms and said I would be back tomorrow to interview all field workers and would collect it from her then.

On 01-29-16, Mr. Steven Ogata, Environmental Health Specialist with the Hawaii Department of Agriculture – Pesticides Branch (Oahu), accompanied me to Syngenta to interview the field workers involved in the 01-20-16 incident. The Notice of Pesticide Use/Misuse Inspection was issued to Uyehara. Both inspectors presented their credentials. Uyehara was interviewed. Uyehara said on 01-20-16, at 9:55AM, Hamrick sent him an email notifying him of the situation. Uyehara said he read the email shortly after 10:00AM and walked back to the accessory facility to monitor the situation. Uyehara was questioned about prior early entries into fields with active REI's. Uyehara explained field posting protocols and how fields are laid out. Uyehara said the crew leads, Kanahele and Rapozo, are allowed to close field signs once REI's are expired. Uyehara explained how large fields are and where the signs are posted. Uyehara said fields are 90 feet wide with a 5 foot gap between fields. Field signs are located at the front, left side of the fields. Uyehara said work being done by the field crew on 01-20-16 was only supposed to be in fields 21 through 24. Uyehara explained that Syngenta has not completed its internal investigation on the events on 01-20-16 because "it's a busy time for them." We asked Uyehara to prepare an attestation regarding the events on 01-20-16 and how Syngenta will ensure that early entry by field workers will not happen again. An attestation form was left with Uyehara.

We were met by Mr. Jeremy Hausam, Health, Safety, Environmental and Security Lead. Hausam escorted us to his office. Hausam explained that Syngenta has put together an investigation team comprised of Uyehara, himself, Human Resources - Ms. Micah Finnilla, Robinson, Hamrick and Brun. Hausam said the field crew leader that day was Kanahele and Rapozo was the Acting Research Associate. Hausam said Kali was overall responsible for Cullen and Kanahele. Hausam said all Global Ag people were transported to the hospital by Global Ag, and Brun transported a couple of the HI Employment employees: worker, [redacted] and HR Staffing Manager, Ms. Shandell Lau. Hausam said no Syngenta full time employees requested to go to the hospital. Hausam said 10 workers were taken to KVMH on 01-20-16. Hausam said labels and Safety Data Sheets (SDS) for both Lorsban Advance and Permethrin were given to the hospital and to each employee that was decontaminated. Hausam said he would provide all WPS training records for all workers that were involved in the incident. Hausam was asked for a list of all workers involved in the early entry incident and decontamination on 01-20-16. Hausam said he would provide a copy of the instructions provided to employees on how to wash and decontaminate their clothing. Hausam was asked to provide an attestation on the events on 01-20-16.

Brun was called by Hausam and Uyehara to produce a list of all workers that were contracted from Global Ag Services, Inc. and from HI Employment. Brun provided a list with 38 names (35 workers and 3 crew leads) of individuals who were involved in the incident on 01-20-16. Brun identified what company each person worked for and the 10 people that went to the hospital. Brun was also asked to provide a statement on the incident that occurred on 01-20-16.

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

At 11:25AM, Ogata and I were escorted to a tented area near the CNS where we were met by small groups of the field workers involved in the 01-20-16 early entry incident. Rapozo was introduced to Ogata and said he would coordinate movement of various groups to our site. I asked Rapozo to sit away from the area that we were interviewing workers and to face away from the group. Upon the workers arrival, I introduced Ogata and myself to the workers and explained to them that we would be collecting their statements on what happened on 01-20-16. Ogata expressed that all statements were voluntary and that they did not have to complete one if they didn't want to. I said their statements would remain confidential. For each group interviewed, we first identified workers that entered field 25 and then identified if anyone went to the hospital. Ogata focused on workers that entered field 25 and went to the hospital. I interviewed all other workers.

A total of 32 field workers were interviewed. Rapozo said three workers, [redacted] and [redacted] and [redacted], were not at work. After reviewing the workers attestations with them, I provided my business card to them. Workers that went to the hospital were also provided Dr. Brooks phone number and were encouraged to call her. A total of 35 field workers were decontaminated, regardless if they entered Field 312-A25. Ten workers were taken to the hospital. Nine of these field workers were Global Ag employees and were taken to the hospital by non-Syngenta personnel.

Ten workers went to the hospital on 01-20-16. These individuals were interviewed by Ogata.

1. [redacted] said he did not check the field sign at section 25, he just walked into the field to continue working. [redacted] said they took a break at 9:00AM and his boss asked who entered field 312-A25 and said that they were all contaminated. [redacted] said they went to the lunch station to wash their hands, arms and face with a lot of soap and put on white suits. [redacted] explained the decontamination process and that he went to the hospital because he was feeling really sick. [redacted] said he had a headache, was dizzy, nauseous, weak and sleepy. [redacted] said he was released from the hospital at 6:00PM. [redacted] said he went home feeling much better. [redacted] provided an attestation.
2. [redacted] said it was explained that some full timers (FT's) walked into a field that had an active REI. [redacted] said to the best of his knowledge, he did not enter field 25. [redacted] said while in the field he wears a face cover and coveralls. [redacted] said he had a slight tingle on his lips and cheeks when he arrived to the decontamination site. [redacted] said the tingling went away about 1 hour after he got to the hospital. [redacted] said he was released from the hospital two hours after he arrived. [redacted] said he was not given medicine nor had any blood taken. [redacted] said he takes orders from Rapozo and Kanahele in the field. [redacted] said Gandia drove him and 3 others to the hospital. [redacted] said he was provided with the chemical sheet of what he was exposed to by Gandia. [redacted] said there was a morning meeting the next day at Syngenta to explain proper field entering. [redacted] provided an attestation.
3. [redacted] said on 01-20-16 she saw people in field 312-A25, so she went to assist before taking their morning break at 9:00AM. [redacted] said Rapozo instructed them to go to the break tent and put on a tyvek suit, then they were taken to the accessory building to take a shower with soap. [redacted] said Brun took her to the hospital where she remained for six hours.

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

[redacted] is the only worker from HI Employment that went to the hospital. [redacted] said they were instructed to put contaminated clothes and shoes into a trash bag. [redacted] said she threw her clothes away and returned to work on 01-22-16. [redacted] provided an attestation.

4. [redacted] said he works for Global Ag and was working at Syngenta on 01-20-16 with [redacted] [redacted] said he is not sure what field he entered. ([redacted] stated that she entered field 312-A25). [redacted] said he showered and changed into a white suit and went to the hospital. [redacted] said Gandia took them. [redacted] said paperwork for pesticides was provided by Rapozo. [redacted] said his head had compression, but he had no pain and his nose was dry and hot feeling. [redacted] said he had no nausea or vomiting. [redacted] said his vision was weird and his left eye was moving or twitching. [redacted] said they took his symptoms and drew blood and was in the hospital for 12 hours. [redacted] said no medication was given to him. [redacted] said he feels ok today. [redacted] said there was a safety meeting the next day. [redacted] provided an attestation.
5. [redacted] said he works for Global Ag. and on 01-20-16, about 8:30AM he was in field 312-A25 at Syngenta. [redacted] said his lead was Kanahele. [redacted] said there were people in field 312-A25 when he entered to rubber band the field. [redacted] said he was in the field for 30 minutes. [redacted] said he took a break at 9:00AM and was asked by Rapozo if he was in field 25. [redacted] said he drank water and felt like vomiting. Rapozo said his eyes were watering and burning and half of his face was burning. [redacted] said they were put in white suits and driven back to headquarters. [redacted] said his eyes were feeling worse. [redacted] said he took a shower at a building in the back and there was very little water. [redacted] said his eyes were still watering and burning and his face had a tingling sensation. [redacted] said Gandia took them to the hospital in Waimea. [redacted] said he doesn't know what WPS is but they watched videos. [redacted] said he was still in the hospital on 01-21-16 and his eyes were on fire, half of his face was on fire and he had difficulty breathing. [redacted] said he returned to work on 01-25-16 and his eyes were twitching and half of his left side of his body was numb. At 11:00AM he was pulled from the field and told by Brun to go to the hospital. [redacted] said Perreira picked him up and took him home. Perreira scheduled an eye appointment for 01-27-16. [redacted] was complaining during the interview that his hand was stiff and that his left shoulder hurt. [redacted] said he entered field 312-A25 from the front while others entered from the side. [redacted] provided an attestation.
6. [redacted] said on 01-20-16, they drove to field 312-A22 or 321-A23 and they were given instruction and showed them what to do. [redacted] said they took a break around 9:00AM – 9:30AM. [redacted] said as he was walking out of field 312-A25 he noticed the fields across had their signs down saying "Do Not Enter". [redacted] said he did not think anything about this and went to the vans to take our break. [redacted] said he realized he walked into a pesticide area because people were saying it was field 312-A25. [redacted] said they had a little 10-15 minute meeting because Syngenta was trying to figure out what happened. [redacted] said white suits were given to them to put over their clothing. [redacted] said on the ride back to the office he started feeling light headed and started getting a headache. [redacted] said they waited for showers and once they were clean, they were driven to the emergency room. [redacted] said at that point he had a major headache, nausea, diarrhea and sinus pressure. [redacted] said he hardly gets headaches so he knew something was going on. [redacted] said he was given medicine for his

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

nausea and morphine for his headache. [redacted] said the morphine helped but the headache kept coming back. [redacted] said he stayed in the hospital overnight and was released the next day. [redacted] said he was prescribed pain medication but he still gets headaches to this day. [redacted] said this happened on his second day at work and he is not sure who the crew lead was at the time. [redacted] said Syngenta was trying to help but it seemed like they were running all over the place. [redacted] said he returned to work on 01-25-16. [redacted] provided an attestation.

7. [redacted] said 01-20-16 was his first day in the field. He dropped his staples on the ground and [redacted] and his lead, Jerry, came over towards his location in field 312-A25. [redacted] said he noticed that the field sign was "up" (meaning it was ok to be in that area) as he exited the field. [redacted] said he went to the crew van and took a break and drink water. [redacted] said he began to get a massive headache. [redacted] said they were then informed to move to a certain location and put on Tyvek suits in the field before being transported to Syngenta Station. [redacted] said they took a shower and put on another suit then were taken to the hospital. [redacted] said when he was admitted he had a migraine and nausea. [redacted] said Gandia drove him to KVMH where his symptoms began to increase. [redacted] said his right leg began to hurt and he was given saline fluid thru an IV. [redacted] said he was given morphine every two hours. [redacted] said he was released the next morning at 10:00AM. [redacted] said he still is experiencing the bad headaches and nausea periodically. [redacted] provided an attestation.
8. [redacted] said it was his second day at Syngenta and was not sure who the crew lead was. [redacted] said he was just following the work flow and that's how he ended up in field 312-A25. [redacted] said in the beginning of the day they were assigned a partner and were told just to follow the work flow. [redacted] said his partner was [redacted] (?). They were driven from the field by Dean Kanahele and to the hospital by Gandia. [redacted] said he was at the hospital for 3 hours and was release when [redacted] was released. [redacted] said they did not draw blood, they just took his vitals. [redacted] provided an attestation.

Ogata also collected statements from the acting Research Associates, Rapozo and McClallen.

While we were interviewing a group of field workers, Brun walked up and threw his attestation on the table in front of me and walked away. Brun's statement said that he is the third party coordinator and his responsibilities are to coordinate with employment agencies to hire temporary staff and handle any day to day issues. Brun wrote that on 01-20-16, he brought HI Employment Staffing Manager, Ms. [redacted] and [redacted] and one other Global Ag field worker ("I think his name was [redacted]") to KVMH ER. Brun also wrote that he gave Dr. Fukino the labels and MSDS sheets for the chemicals that were sprayed.

Wedekind had prepared an attestation and brought it to the area where I was interviewing field workers. Wedekind waited for me to read her statement and signed all papers. Wedekind provided a very detailed account of what happened on 01-20-16. Wedekind explained how she assisted Hausam with running the decontamination process although it was not her responsibility. Wedekind explained that every Monday morning, she reviews the pesticide application schedule for the week with the Associate Scientists and Research Associates that attend. Wedekind explained that in this particular

situation, Kali knew that there was an active REI for this particular field for Wednesday, 01-20-16. Wedekind said she has an e-mail from him saying that they would skip work in sections that were sprayed with the 24 hour REI on Wednesday 01-20-16. Wedekind made copies of her attestation for her records.

Thirty-five field workers were working under the direction of Kanahele and Rapozo on 01-20-16. Thirty-five field workers were told that they would need to decontaminate. They were instructed to remove their clothing, place it in a trash bag, shower with soap and water, dry with disposable towels and put on a tyvek suit on 01-20-16.

Nineteen field workers entered field 312-A25, on 01-20-16, during an active REI. Ten workers went to the hospital after decontamination which included one worker that did not enter field 312-A25. Nine of these workers were contract workers from Global Ag Services, Inc. and were not taken to the hospital by the agricultural employer, Syngenta Hawaii, LLC.

Ogata and I had closing remarks with Uyehara and reviewed all items requested. Uyehara provided a typed attestation. We asked a second time that Uyehara provide a list of all other times early entry into fields with an active REI occurred in the past year. We also asked Uyehara to explain how Syngenta will ensure that an event like this will not happen again. This was covered in his attestation.

Hausam joined the meeting and provided all records of WPS training records for all workers involved and an attestation of the events that occurred on 01-20-16 and what role he played. Hausam provided his attestation of the events on 01-20-16 from his account. Hausam said he will provide the instructions that he gave to workers on how to launder their contaminated clothes and the Safety Data Sheets (SDS) and labels that were provided to the hospital later. We departed Syngenta at 2:40PM.

On 01-29-16, at 7:34PM, [redacted] contacted me. [redacted] said Global Ag, Services, Inc. was terminating him and booked him a ticket to return to the mainland at 11:00PM. [redacted] said he entered the field on 01-20-16 and went to the hospital. [redacted] said he was throwing up on Thursday night (01-28-16) and was dizzy. [redacted] said his brother, [redacted] did not want to stay and would be returning to the mainland on Sunday night. [redacted] asked if Global Ag could do this. [redacted] said he was speaking with Annette from Global Ag.

On 01-29-16, at 7:56PM, I spoke with Ms. Annette Perreira, HR and Staffing Manager at Global Ag. I informed Perreira that I received a call from [redacted] and I still needed to interview him and his brother regarding the early entry incident and admittance to KVMH on 01-20-16. Perreira said Global Ag was releasing [redacted] because he had breached his contract with the company regarding rules at the Global Ag rental housing. Perreira said she would push back [redacted] return flight to Monday, 02-01-16, 11:00PM, so I could have time to interview him and [redacted] would need to change his reservation for a later date.

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

On 01-29-16, at 8:10PM, [redacted] called and agreed to meet with me on Saturday, 01-30-16, to be interviewed.

On 01-30-16, 10:29AM, I received a call from [redacted] said he and his brother were available to be interviewed. I met them at the Global Ag Rental housing located at 3588 Konale Street, Hanapepe, Hawaii. A Notice of Pesticide Use/Misuse Inspection was issued to [redacted]. Both brothers were interviewed and asked to provide statements.

9. [redacted] said he was dizzy and had nausea. [redacted] said they drew blood from him and gave him morphine. [redacted] provided paperwork given to him when discharged from the hospital. [redacted] said he nurse did not explain any paperwork to them and said, "Sign and initial by the x's." [redacted] showed me rash on his arms and legs. The rash was photographed. [redacted] provided and attestation.
10. [redacted] said it was his second day working at Syngenta and he entered field 25. [redacted] said he went to the hospital on 01-20-16 and his symptoms were stomach ache and sore throat, light headedness and irritated eyes. [redacted] said he was hooked up to an I.V.. [redacted] said a nurse had come and told him and his brother to sign some papers. [redacted] said he did not realize that he signed a "CONSENT TO RELEASE PROTECTED HEALTH INFORMATION TO THE PUBLIC" and only realized what the form was after I interviewed him and questioned him about it. [redacted] said Bitos accompanied them to the hospital. [redacted] provided an attestation.

On 02-01-16, I spoke with Brooks and provided the number of workers that went to the hospital and their names and phone numbers.

On 02-01-16, I met with Perreira at Global Ag Services, Inc. office in Waimea. The Notice of Pesticide Use/Misuse Inspection was issued to Gandia. Perreira said she received a call from Brun at about 9:00AM on 01-20-16 stating that some of Global Ag's employees entered a field too early and they are being decontaminated. Perreira said Brun asked that she meet with him at Syngenta. Perreira described the decon process. Perreira said Brun told her that we needed to take our employees that need medical attention to the hospital. Perreira said Gandia drove those workers to the hospital.

Perreira said she was asked to assist with getting statements from those at the hospital. Perreira said as she collected the statements from those at the hospital, she made sure they all had a copy of the labels of the pesticides they were exposed to. Perreira said Syngenta told her to ask specific questions: what field did you enter, what field did you end up in, when supervisor called everyone out, who was you partner, who was your supervisor, who were you working with. Perreira said Brun collected the statements at 8:30PM. Perreira said Syngenta was not satisfied with the information collected and collected another set of statements.

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

Perreira said she spoke with Rapozo while the decon process was going on. Rapozo showed her the "Tier One" spreadsheet they received in the morning. This paper has directions for the crew and what fields to work in. Perreira said it showed: 312A21-24
312A31-37

Perreira said he was told by Rapozo that if the field is not listed, they do not go to that field, and that crew leaders were Jerry Kanahele, [redacted], [redacted], [redacted] and [redacted]. Perreira said there were 21 Global Ag employees involved in the incident on 01-20-16 and nine were sent to the hospital. Perreira provided an attestation. Perreira also provided copies of the Medical Excuse Report that indicated when workers may return to regular duty.

On 02-01-16, I called Rapozo to see if [redacted] had returned to work. The receptionist at Syngenta said she would have Rapozo return my call. [redacted] was the HI Employment worker that was not interviewed. Brun returned the call and said [redacted] had not returned to work and provided [redacted] phone number. I called [redacted] and interviewed him over the phone. [redacted] said he entered field 312-A25 on 01-20-16 and did not go to the hospital. [redacted] said it was his first week working at Syngenta and he took orders from Kanahele. [redacted] explained that he followed everyone into field 312-A25. [redacted] said he would not be able to meet with me to provide a written statement.

On 02-03-16, I returned to Syngenta to interview the certified applicators that sprayed and posted field 312-A25 on 01-19-16. A Notice of Use/Misuse inspection was issued to Wedekind. Wedekind explained that Gutierrez was the certified applicator that operated the Nitro Boom Sprayer and Balauro assisted him by opening the field warning signs and placing the REI information on the sign.

Balauro said on 01-19-16, he worked with Gutierrez and put the re-entry signs "down" (opened them) before Gutierrez finished spraying field 312-A25 at 12:57PM. Balauro said he posted the sign with a pink label just before Gutierrez sprayed the field with the time of 12:57PM and the date of January 19th. Balauro said the REI time was 24 hours and the posted re-entry time was January 20th at 12:57PM. Balauro said he placed the pink label on the right hand upper corner of the sign. Balauro said as soon as the sign is down and properly posted, he vacates quickly so Gutierrez can proceed to spray the field. Balauro provided an attestation.

Gutierrez reviewed the procedures they followed at field 312-A25 on 01-19-16. Gutierrez said a wind reading was taken with an anemometer prior to spraying the field and winds were 6-8MPH from the SSW. Gutierrez said he works with Balauro, who places the field signs down and puts stickers on the sign. Gutierrez said he will spray field once the field sign is down and properly posted by Balauro. Gutierrez said they always work together and follow the same procedures prior to spraying fields. Gutierrez provided an attestation.

I reviewed the use investigation once more with Wedekind and Robinson before providing her with a copy of it.

We drove to the field to interview [redacted] [redacted] said on 01-20-16, she was nauseaous and was gagging with saliva while waiting at the break station near field 312. [redacted] said she also was dizzy and was coughing and gagging but that all went away after the shower. [redacted] said she went to the hospital and was very weak and could not talk. [redacted] said she probably got more exposure when she helped [redacted] pick up his staples in field 312-A25. [redacted] said she was given I.V. in the hospital and was discharged at 7:00PM on 01-20-16. [redacted] said she still sometimes has headaches and is concerned about the long term health effects.

After meeting with Wedekind, I met with Uyehara to see if any information that was promised to be provided on 01-29-16, was available. Uyehara called Hausam and provided a copy of the washing instructions for workers clothes that was provided to the thirty-five decontaminated workers on 01-20-16. Hausam also provided a copy of the SDA sheets for Lorsban Advance and Permethrin that were provided to the workers and the hospital. Hausam also provided an internal email from Robinson that identified REI violations at Syngenta.

I reviewed the suspected violations from the 01-20-16 incident with Uyehara. Uyehara explained that Global Ag workers weren't taken to the hospital by Syngenta staff because they were already gone. I informed Uyehara that through my investigation, it was discovered that Brun had told Global Ag representatives to identify which workers they have that need to go to the hospital and take them. Uyehara explained that Global Ag has an agreement with Syngenta to provide general transportation services using their bus and driver because Syngenta does not have sufficient transportation capacity for their peak workload. Uyehara said they are still conducting their internal investigation of the early entry incident that happened on 01-20-16. Uyehara provided an attestation.

On 02-03-16, I returned to Global Ag to interview Gandia regarding the transportation of Global Ag workers from Syngenta to KVMH on 01-20-16. Gandia said on 01-20-16, Perreira called Gandia to come to Syngenta because some of Global Ag workers went in an active REI field and they need to take statements. Gandia said when he arrived, the scene was chaotic and he saw McClallen driving people who went through decontamination out. Gandia said he assumed that they were taking them to the hospital. Gandia said he asked Brun how many people went to the hospital and Brun said, "None. You need to take your own people to the hospital." Gandia then found out that McClallen was just shuttling people from decontamination to the tent at the front of the station near the CNS. Gandia said he got one of the Global Ag vans that wasn't being used for transporting workers to the field and took it to transport eight Global Ag workers that needed attention, to the hospital. Gandia explained that Global Ag has eight vans that transport their workers from Global Ag houses to Syngenta in the morning. Gandia said prior to this incident, Syngenta asked Global Ag if they could use the vans to transport workers to the fields. Gandia said two of the vans were involved with the REI incident and needed to be decontaminated. Gandia said he does not know who decontaminated the vehicles. Gandia said all items in the vehicles had to stay in the vehicles and Syngenta did not allow workers to take their lunches or personal belongings from the vehicles. Gandia said that is why Syngenta bought everyone lunch. Gandia said on 01-20-16, at 11:00AM, he took seven Global Ag workers to KVMH and later got a call from Perreira to come back to Syngenta because [redacted] wanted to go to the hospital because he was

dizzy. Gandia said when he was leaving the ER, he passed Brun on his way to the hospital. Gandia said when he returned with [redacted] Brun was not there. Gandia said Ms. Shandell Lau, from HI Employment said Brun left to pick up lunch. Gandia said no Syngenta personnel or managers were present at the hospital and he remained at KVMH until 4:00PM. Gandia provided an attestation.

On 02-05-16, after further review of the WPS training records that were provided, it was discovered that some WPS training was conducted during 2014 by Mr. David Murch. I called Hausum and asked that he verify that the qualifications Murch had to train and to produce any other records for WPS training for C. Rapozo, J. Kanahele, [redacted] and [redacted]

On 02-05-16, Hausam called to inform me that Murch was on the mainland and on vacation and he would get information to me as soon as possible.

Ann Kam
Environmental Health Specialist
02-05-16

Syngenta Hawaii, LLC
Mr. Eddie Gutierrez (Cert. No. K51479)
P.O. Box 823
Kekaha, Hawaii 96752

ADDENDUM

On 02-11-16, I was informed that Hausam had resigned from Syngenta.

On 02-18-16, I called Uyehara regarding information that Hausam said he would provide regarding WPS training conducted By Mr. David Murch. Uyehara confirmed that Hausam resigned on 02-09-16. Uyehara said Murch was previously the HSE Manager and provided the overall training sessions as seen on the sign-in sheet. I informed Uyehara that WPS training sheets indicated that Murch was the trainer, however, Murch was not a certified applicator or a qualified WPS trainer. Uyehara sent an email regarding this information.

Ann Kam
Environmental Health Specialist
02-18-16

From: Uyehara Joshua USWM [mailto:joshua.uyehara@syngenta.com]
Sent: Thursday, February 18, 2016 9:49 AM
To: Kam, Ann M <Ann.M.Kam@hawaii.gov>
Subject: Follow-Up

Hi Ann,

Per our discussion, Jeremy Hausam resigned from his role as our site's HSE manager last week (2/9/2016).

Regarding the outstanding item that Jeremy was to get back to you:

- David Murch was previously HSE manager at our site
- Our practice has been that an overall training session would be hosted by the trainer named on the sign-in sheet, but specific portions of the training may have been delivered by different individuals during the session.
- As David is no longer stationed at our location, I will have to get in contact with him to determine the specific circumstances of the trainings conducted while he was HSE manager. I will try to get ahold of David before the weekend.

Please accept my apologies for the length of time it's taking to get some of this information back to you, and please feel free to give me a call if you have any other questions.

Regards,
Joshua Uyehara
Hawaii Continuous Nursery Site Manager
Office: (808) 337-1408 x 171
Cell: (612) 718-6686
Email: Joshua.Uyehara@Syngenta.com

Syngenta Hawaii
01/20/16 CK

State of Hawaii
DEPARTMENT OF AGRICULTURE

NOTICE OF PESTICIDE USE/MISUSE INSPECTION

AND OFFICE ADDRESS:
Plant Industry Division
Pesticides Branch
4398A Pua Loke St.
Lihue, HI 96766

DATE: 01/20/16 HOUR: 9:03 AM PM

NAME OF INDIVIDUAL	TITLE
Emilee Wedekind	IPM Lead
NAME (Firm, Farmer, Homeowner, etc.)	**ADDRESS (Number, Street, City, State and ZIP Code)**
Syngenta Hawaii, LLC	7090 Kaumualii Hwy Kekaha, HI 96752 / P.O. Box 823 Kekaha, HI 96752
SIGNATURE OF STATE INSPECTOR	TITLE
	Environmental Health Specialist

REASON FOR INSPECTION

☐ For the purpose of inspecting sites where pesticides are being used to collect data on the use of pesticides and to determine whether pesticides are being used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

☒ For the purpose of inspecting sites where pesticides have been used and to determine whether the pesticides were used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

VIOLATION SUSPECTED:

In Response to a Complaint KA-16-01

7

* Early entery incident at 9:00AM into Field 312-A25 - C.W.

CONSENT

☒ Voluntary Consent Necessary to enter for Inspection and/or Sampling.

The undersigned hereby voluntarily consents to an inspection of Syngenta Hawaii, LLC of which I am owner, Agent or Person-In-Charge, for the purposes of gathering information and/or samples in connection with the administration and enforcement of the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

SIGNATURE	TITLE	DATE
Emilee Wedekind	IPM Lead	1/20/2016

Form No. P-33
(Rev. 04/04)

DISTRIBUTION: White – DOA Record Copy
Yellow – Owner/Agent Copy
Pink – Inspector's Copy

State of Hawaii
DEPARTMENT OF AGRICULTURE

NOTICE OF PESTICIDE USE/MISUSE INSPECTION

ISLAND OFFICE ADDRESS:
Plant Industry Division
Pesticides Branch
4398A Pua Loke St.
Lihue, HI 96766

DATE: 01/28/16 (all day)
HOUR: 12:29 AM (PM)

NAME OF INDIVIDUAL	TITLE
Robert Gandia	Site Staffing Manager
NAME (Firm, Farmer, Homeowner, etc.)	**ADDRESS (Number, Street, City, State and ZIP Code)**
Global Ag Services, Inc	9555 Kaumualii Hwy Suite 102 Waimea, HI 96796 / P.O. Box 874 Kekaha, HI 96752
SIGNATURE OF STATE INSPECTOR	TITLE
	Environmental Health Specialist

REASON FOR INSPECTION

☐ For the purpose of inspecting sites where pesticides are being used to collect data on the use of pesticides and to determine whether pesticides are being used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

☒ For the purpose of inspecting sites where pesticides have been used and to determine whether the pesticides were used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

VIOLATION SUSPECTED:

Follow-up And In Response to Early entry into Syngenta Hawaii Fields with an Active REI, on 01/20/16, by Global Ag Services, Inc. Workers.

?

CONSENT

☒ Voluntary Consent Necessary to enter for Inspection and/or Sampling.

The undersigned hereby voluntarily consents to an inspection of Global Ag Services, Inc. of which I am owner, Agent or Person-In-Charge, for the purposes of gathering information and/or samples in connection with the administration and enforcement of the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

SIGNATURE	TITLE	DATE
	Staffing Site Manager	1-28-16

Form No. P-33
(Rev. 04/04)

DISTRIBUTION: White – DOA Record Copy
Yellow – Owner/Agent Copy
Pink – Inspector's Copy

State of Hawaii
DEPARTMENT OF AGRICULTURE

NOTICE OF PESTICIDE USE/MISUSE INSPECTION

ISLAND OFFICE ADDRESS:
Plant Industry Division
Pesticides Branch
4398A Pua Lane St.
Lihue, HI 96766

DATE: 01/28/16
HOUR: 1:50 AM (PM)

NAME OF INDIVIDUAL	TITLE
Emilee Wedekind	IPM Lead
NAME (Firm, Farmer, Homeowner, etc.)	**ADDRESS (Number, Street, City, State and ZIP Code)**
Syngenta Hawaii, LLC	7050 Kaumualii Hwy. Kekaha, HI 96752 / P.O. Box 823 Kekaha, HI 96752
SIGNATURE OF STATE INSPECTOR	TITLE
[signature]	Environmental Health Specialist

REASON FOR INSPECTION

☐ For the purpose of inspecting sites where pesticides are being used to collect data on the use of pesticides and to determine whether pesticides are being used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

☒ For the purpose of inspecting sites where pesticides have been used and to determine whether the pesticides were used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

VIOLATION SUSPECTED:

In Response to an Incident at Syngenta Hawaii, LLC of early entry into Fields with an active REI on 01/20/16

CONSENT

☒ Voluntary Consent Necessary to enter for Inspection and/or Sampling.

The undersigned hereby voluntarily consents to an inspection of Syngenta Hawaii, LLC of which I am owner, Agent or Person-In-Charge, for the purposes of gathering information and/or samples in connection with the administration and enforcement of the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules; Chapter 66, Pesticides, of the Department of Agriculture.

SIGNATURE	TITLE	DATE
Emilee Wedekind	IPM Lead	1/28/2016

Form No. P-33
(Rev. 04/04)

DISTRIBUTION: White – DOA Record Copy
Yellow – Owner/Agent Copy
Pink – Inspector's Copy

State of Hawaii
DEPARTMENT OF AGRICULTURE

NOTICE OF PESTICIDE USE/MISUSE INSPECTION

ISLAND OFFICE ADDRESS:
Plant Industry Division
Pesticides Branch
4398A Pua Loke St.
Lihue, HI 96766

DATE	HOUR
01/29/16	9:01 AM

NAME OF INDIVIDUAL	TITLE
Joshua N. Uyehara	Hawaii Continuous Nursery Site Manager
NAME (Firm, Farmer, Homeowner, etc.)	**ADDRESS (Number, Street, City, State and ZIP Code)**
Syngenta Hawaii LLC	7050 Kaumualii Hwy Kekaha, HI 96752 / P.O. Box 823 Kekaha, HI 96752
SIGNATURE OF STATE INSPECTOR	**TITLE**
[signature]	Environmental Health Specialist

REASON FOR INSPECTION

☐ For the purpose of inspecting sites where pesticides are being used to collect data on the use of pesticides and to determine whether pesticides are being used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

☒ For the purpose of inspecting sites where pesticides have been used and to determine whether the pesticides were used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

VIOLATION SUSPECTED:

In Response to an Incident at Syngenta Hawaii, LLC of early entry by workers into Field 312-A25 or with active REI on 01/20/16

CONSENT

☒ Voluntary Consent Necessary to enter for Inspection and/or Sampling.

The undersigned hereby voluntarily consents to an inspection of Syngenta Hawaii, LLC of which I am owner, Agent or Person-In-Charge, for the purposes of gathering information and/or samples in connection with the administration and enforcement of the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

SIGNATURE	TITLE	DATE
[signature]	Hawaii Continuous Nursery Site Manager	1/29/16

Form No. P-33
(Rev. 04/04)

DISTRIBUTION: White – DOA Record Copy
Yellow – Owner/Agent Copy
Pink – Inspector's Copy

State of Hawaii
DEPARTMENT OF AGRICULTURE

NOTICE OF PESTICIDE USE/MISUSE INSPECTION

ISLAND OFFICE ADDRESS:
Plant Industry Division
Pesticides Branch
4398A Pua Loke St.
Lihue, HI 96766

DATE: 02/01/16
HOUR: 10:00 AM (1) PM

NAME OF INDIVIDUAL	TITLE
Robert Gandia	Staffing Site Manager
NAME (Firm, Farmer, Homeowner, etc.)	**ADDRESS (Number, Street, City, State and ZIP Code)**
Global Ag Services, Inc.	9555 Kaumualii Hwy Suite 102 Waimea, HI 96796 / P.O. Box 874 Kekaha, HI 96752
SIGNATURE OF STATE INSPECTOR	TITLE
	Environmental Health Specialist

REASON FOR INSPECTION

☐ For the purpose of inspecting sites where pesticides are being used to collect data on the use of pesticides and to determine whether pesticides are being used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

☒ For the purpose of inspecting sites where pesticides have been used and to determine whether the pesticides were used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

VIOLATION SUSPECTED:

In Response to an Incident at Syngenta Hawaii, LLC on 01/20/16 regarding early entry into Field 25

CONSENT

☒ Voluntary Consent Necessary to enter for Inspection and/or Sampling.

The undersigned hereby voluntarily consents to an inspection of Global Ag Services, Inc of which I am owner, Agent or Person-In-Charge, for the purposes of gathering information and/or samples in connection with the administration and enforcement of the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

SIGNATURE	TITLE	DATE
	Staffing Site Manager	2-1-16

Form No. P-33
(Rev. 04/04)

DISTRIBUTION: White – DOA Record Copy
Yellow – Owner/Agent Copy
Pink – Inspector's Copy

State of Hawaii
DEPARTMENT OF AGRICULTURE

NOTICE OF PESTICIDE USE/MISUSE INSPECTION

ISLAND OFFICE ADDRESS:
Plant Industry Division
Pesticides Branch
4398 A Pua Loke St.
Lihue, HI 96766

DATE: 02/03/16
HOUR: 9:00 AM (AM / PM)

NAME OF INDIVIDUAL: Emilee Wedekind
TITLE: IPM Coordinator

NAME (Firm, Farmer, Homeowner, etc.): Syngenta Hawaii, LLC
ADDRESS (Number, Street, City, State and ZIP Code): 7050 Kaumualii Hwy. / P.O. Box 823, Kekaha, HI 96752

SIGNATURE OF STATE INSPECTOR: Clint Kem
TITLE: Environmental Health Specialist

REASON FOR INSPECTION

☐ For the purpose of inspecting sites where pesticides are being used to collect data on the use of pesticides and to determine whether pesticides are being used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

☒ For the purpose of inspecting sites where pesticides have been used and to determine whether the pesticides were used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

VIOLATION SUSPECTED:

Continue inspection From 01/20/16, 01/28/16, 01/29/16

7

CONSENT

☒ Voluntary Consent Necessary to enter for Inspection and/or Sampling.

The undersigned hereby voluntarily consents to an inspection of Syngenta Hawaii, LLC of which I am owner, Agent or Person-In-Charge, for the purposes of gathering information and/or samples in connection with the administration and enforcement of the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

SIGNATURE	TITLE	DATE
Emilee Wedekind	IPM Lead	2/3/2016

Form No. P-33
(Rev. 04/04)

DISTRIBUTION: White – DOA Record Copy
Yellow – Owner/Agent Copy
Pink – Inspector's Copy

State of Hawaii
DEPARTMENT OF AGRICULTURE

NOTICE OF PESTICIDE USE/MISUSE INSPECTION

ISLAND OFFICE ADDRESS:
Plant Industry Division
Pesticides Branch
4398 A Pua Lolce St.
Lihue, HI 96766

DATE: 02/03/16 | HOUR: 1855 (AM / PM)

NAME OF INDIVIDUAL	TITLE
Robert Gunda	Staffing Site Manager
NAME (Firm, Farmer, Homeowner, etc.)	**ADDRESS (Number, Street, City, State and ZIP Code)**
Global Ag Services, LLC	9555 Kaumwalii Hwy Suite 102 Waimea, HI 96796 / P.O. Box 874 Kekaha, HI 96752
SIGNATURE OF STATE INSPECTOR	TITLE
	Environmental Health Specialist

REASON FOR INSPECTION

☐ For the purpose of inspecting sites where pesticides are being used to collect data on the use of pesticides and to determine whether pesticides are being used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

☒ For the purpose of inspecting sites where pesticides have been used and to determine whether the pesticides were used in compliance with the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

VIOLATION SUSPECTED:

Follow-up to 01/20/16 Incident of Early Entry into Syngenta Field. 312-A25

CONSENT

☒ Voluntary Consent Necessary to enter for Inspection and/or Sampling.

The undersigned hereby voluntarily consents to an inspection of Global Ag Services, LLC of which I am owner, Agent or Person-In-Charge, for the purposes of gathering information and/or samples in connection with the administration and enforcement of the Hawaii Pesticides Law (Chapter 149A, HRS) and Administrative Rules, Chapter 66, Pesticides, of the Department of Agriculture.

SIGNATURE	TITLE	DATE
	Staffing Site Manager	2-3-16

Form No. P-33
(Rev. 04/04)

DISTRIBUTION: White – DOA Record Copy
Yellow – Owner/Agent Copy
Pink – Inspector's Copy

HAWAII DEPARTMENT OF AGRICULTURE USE INVESTIGATION REPORT

1. PERSON INTERVIEWED

a. NAME: Emilee Wedekind	b. ADDRESS: Syngenta Hawaii, LLC 7050 Kaumualii Hwy. Kekaha, HI 96752 / P.O. Box 823 Kekaha, HI 96752
c. TELEPHONE: 337-1408	d. CERTIFICATION NUMBER: K51501

2. APPLICATOR

a. NAME: Eddie Gutierrez	b. ADDRESS: same as above
c. TELEPHONE: 337-1408	d. CERTIFICATION NUMBER: K51479

3. SITE OF APPLICATION

a. NAME: Syngenta Hawaii, LLC	b. ADDRESS: Kekaha Fields 312-A25, A15-A20, A26-A30, B16-B27, 313-B01	
c. TELEPHONE: 337-1408		
d. TYPE OF BUSINESS: Seed Research	e. CROP, AREA OR OBJECT TREATED: Corn	f. TARGET PEST: Earworm
g. DATE & TIME OF APPLICATION: 01/19/2016 12:33pm – 1:42pm 12:57pm (Field A25)	h. WEATHER AT TIME OF APPLICATION: Winds from SSW (249°) ~~7~~ 8mph per E Gutierrez C.W.	

4. PESTICIDE APPLIED

a. BRAND NAME: Lorsban Advance / Permethrin	b. EPA REG. NO.: 62719-591 / 34704-873	
c. TYPE OF FORMULATION: Liquid / Liquid	d. BATCH NO.: — / —	e. CLASSIFICATION: ☒ Restricted / ☒ Restricted ☐ Non-Restricted

5. RATE OF APPLICATION

a. METHOD OF APPLICATION: Nitro Boom Sprayer with drop Nozzles	b. DILUTED MATERIAL APPLIED PER UNIT (Gallons/Acre): 955 gallons Lorsban Advance / Permethrin / 19 Acres
c. DILUTION RATE: 4 gallons 96 fl.oz. Lorsban Advance C.W. / 114 fl.oz. Permethrin / 48 fl.oz. Brand Indicate 5 / 950 gallon water	d. ACTUAL ACTIVE PER UNIT (Lbs./Acre)

6. SAMPLES COLLECTED (List sample numbers)

a. FORMULATION	b. DILUTED MATERIAL	c. RESIDUE
—		—

7. WERE THE FOLLOWING LABELING INSTRUCTIONS FOLLOWED? ☐ YES ☒ NO (If "NO", check and explain.)

☐ TARGET PEST	☐ CROP, AREA OR OBJECT TREATED	☐ CAUTIONARY LABELING
☐ METHOD OF APPLICATION	☐ REENTRY INTERVAL	☐ ENDANGERED SPECIES
☐ DILUTION USED	☐ APPLICATOR CERTIFIED	☐ GROUNDWATER PROTECTION
☐ RATE OF APPLICATION	☐ PREHARVEST INTERVAL	☒ WORKER PROTECTION early entry into field by Field crew – ~~18~~ 19 workers C.W.
☒ OTHER: Transportation of Global Ag workers(s) by Non Syngenta personell.		

8. CONSEQUENCES OF USE (List any unusual results or adverse effects from treatment)

Field workers entering Field 312-A25 before REI expiration on 01/20/16, 12:57pm

9. REMARKS

1. On 01/20/16, This inspector was conducting a complaint inspection (KA-16-01) at Syngenta Hawaii, LLC when an incident occured – 37 Field Workers, ~~possibly~~ C.W. 19 entered Field 312-A25 Prior to the REI expiring at 01/20/16, 12:57pm. 2. E. Wedekind was informed by Arthur Brun at approximately 9:05AM of the incident. 3. E Gutierrez wore Chemical Resistant glove, Chemical Resistant apron, long pants, socks, rubber boots, dust mask, long sleeved shirt, safety glasses & face shield while mixing + loading. 4. E Gutierrez takes wind speed & direction at each field prior to spraying using an anemometer. 5. E. Gutierrez ~~posted~~ C.W. was assisted by Fred Balauro – who posted the Field signs with Pink REI information stickers. 6. On 01/20/16, this inspector watched as Syngenta officials responded to this incident. 7. On 01/20/16, this inspector interviewed All field workers as they waited to be decontaminated. 8. Many Field workers identified the Filipino Syngenta Worker, C.W. Pesiha Uri, As putting up the Field sign in 312-A25 on 01/20/16. 9. Approximately 37 Field workers were decontaminated, regardless if they entered Field 312-A25, 10 were taken to the hospital By NON-Syngenta Personnel – Arthur Brun told Robert Gacha, from Global Ag, that they needed to take their own people to the Hospital.

10. DATE OF INVESTIGATION	11. TIME	12. INVESTIGATOR (Signature)	13. TITLE
01/28/16, 01/29/16 C.W. (01/20/16 ...00AM ...3:30PM)	1:50 – 3:00pm C.W., 9:00AM – 3:20pm	Ann Kam 02/03/16 9:00AM – 10:05 C.W.	Environmental Health Specialist

Form No. P-34 (Rev. 08/93)

DISTRIBUTION: Original - DOA Reco[rd] 2 - Owner/Age[nt] 3 - Inspect[or]

10. The Lorsban Advanced label reads, "Worker Restricted Entry Interval... 24 hrs unless PPE is worn"

11. 19 Field Workers entered Field 312-A25 on 01/20/2016 at or Between 8:00AM – 9:00AM – No one is sure how long they were in field. 12. 10 workers were taken to the Hospital. 13. 9 Global Ag workers were taken to Hospital By Global Ag and not by Syngenta

000026

C.W. Entered 1/27/16

TUESDAY

Location	Field	Crop	Applicator	License	Date	Track	Time Applied	Acres	REI	Brand Name	Active Ingredient	EPA Number	Trial Manager	ALL DROPS
Kekaha	312 A15	Corn	Eddie	K51479	1/19/2016		139	0.74	24 HR	Lorsban Permethrin	.79 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A16	Corn	Eddie	K51479	1/19/2016		136	0.74	24 HR	Lorsban Permethrin	.79 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A17	Corn	Eddie	K51479	1/19/2016		133	0.62	24 HR	Lorsban Permethrin	.67 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A18	Corn	Eddie	K51479	1/19/2016		130	0.53	24 HR	Lorsban Permethrin	.58 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A19	Corn	Eddie	K51479	1/19/2016		121	0.46	24 HR	Lorsban Permethrin	.51 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A20	Corn	Eddie	K51479	1/19/2016		118	0.71	24 HR	Lorsban Permethrin	.76 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A25	Corn	Eddie	K51479	1/19/2016		1257	0.68	24 HR	Lorsban Permethrin	.73 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon 1215PM
Kekaha	312 A26	Corn	Eddie	K51479	1/19/2016		1254	0.74	24 HR	Lorsban Permethrin	.79 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A27	Corn	Eddie	K51479	1/19/2016		1245	0.74	24 HR	Lorsban Permethrin	.79 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 249° 6-8
Kekaha	312 A28	Corn	Eddie	K51479	1/19/2016		1236	0.74	24 HR	Lorsban Permethrin	.79 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A29	Corn	Eddie	K51479	1/19/2016		1233	0.74	24 HR	Lorsban Permethrin	.79 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 A30	Corn	Eddie	K51479	1/19/2016		1230	0.74	24 HR	Lorsban Permethrin	.79 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 5-8 mph
Kekaha	312 B16	Corn	Eddie	K51479	1/19/2016		1239	0.81	24 HR	Lorsban Permethrin	.86 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 B17	Corn	Eddie	K51479	1/19/2016		1242	0.68	24 HR	Lorsban Permethrin	.73 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 B18	Corn	Eddie	K51479	1/19/2016		1248	0.81	24 HR	Lorsban Permethrin	.86 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 B19	Corn	Eddie	K51479	1/19/2016		1251	0.81	24 HR	Lorsban Permethrin	.86 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 B20	Corn	Eddie	K51479	1/19/2016		100	0.81	24 HR	Lorsban Permethrin	.86 Chlorpyrifos Permethrin	62719-591 34704-873	Joe	after lunch SSW 6-8
Kekaha	312 B21	Corn	Eddie	K51479	1/19/2016		103	0.54	24 HR	Lorsban Permethrin	.58 Chlorpyrifos Permethrin	62719-591 34704-873	Joe/Justin	after lunch SSW 6-8
Kekaha	312 B22	Corn	Eddie	K51479	1/19/2016		106	0.48	24 HR	Lorsban Permethrin	.52 Chlorpyrifos Permethrin	62719-591 34704-873	Justin M.	anytime SSW 6-8
Kekaha	312 B23	Corn	Eddie	K51479	1/19/2016		109	0.81	24 HR	Lorsban Permethrin	.85 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 B24	Corn	Eddie	K51479	1/19/2016		112	0.81	24 HR	Lorsban Permethrin	.85 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 B25	Corn	Eddie	K51479	1/19/2016		115	0.81	24 HR	Lorsban Permethrin	.85 Chlorpyrifos Permethrin	62719-591 34704-873	Phil	afternoon SSW 6-8
Kekaha	312 B26	Corn	Eddie	K51479	1/19/2016		124	0.81	24 HR	Lorsban Permethrin	.85 Chlorpyrifos Permethrin	62719-591 34704-873	Joe	after lunch SSW 6-8
Kekaha	312 B27	Corn	Eddie	K51479	1/19/2016		127	0.83	24 HR	Lorsban Permethrin	.88 Chlorpyrifos Permethrin	62719-591 34704-873	Joe	after lunch SSW 6-8

Gutierrez's Notes on Spraying Fields on 01/19/16.

Syngenta Hawaii

000027

Kekaha	313 B01	Corn	Eddie	K51479	1/19/2016		142	0.64	24 HR	.68 Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil
							17.83	19					
Kekaha	409 A13	Corn	Eddie	K51479	1/19/2016		333	0.46	24 HR	.53 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil
Kekaha	409 A14	Corn	Eddie	K51479	1/19/2016		336	0.5	24 HR	.57 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil
Kekaha	409 A15	Corn	Eddie	K51479	1/19/2016		339	0.34	24 HR	.41 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil
Kekaha	409 B02	Corn	Eddie	K51479	1/19/2016		300	0.71	24 HR	.78 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil
Kekaha	409 B05	Corn	Eddie	K51479	1/19/2016		307	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B06	Corn	Eddie	K51479	1/19/2016		306	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B08	Corn	Eddie	K51479	1/19/2016		309	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B09	Corn	Eddie	K51479	1/19/2016		312	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B12	Corn	Eddie	K51479	1/19/2016		315	0.67	24 HR	.74 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B13	Corn	Eddie	K51479	1/19/2016		318	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B14	Corn	Eddie	K51479	1/19/2016		321	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B15	Corn	Eddie	K51479	1/19/2016		324	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B16	Corn	Eddie	K51479	1/19/2016		327	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 B17	Corn	Eddie	K51479	1/19/2016		330	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison
Kekaha	409 C04	Corn	Eddie	K51479	1/19/2016		347	0.78	24 HR	.85 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Joe
Kekaha	409 C05	Corn	Eddie	K51479	1/19/2016		344	0.81	24 HR	.88 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Joe
Kekaha	409 C07	Corn	Eddie	K51479	1/19/2016		341	0.21	24 HR	.27 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Joe
Kekaha	409 C03	Corn	Eddie	K51479	1/19/2016		350	0.75	24 HR	.82 Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Joe
							12.25%	13.5					
Mana	**KE0-61174**	**Corn**	Michael	K51337	1/19/2016	**PS**		**3.2**	12HR	Bravo	Chlorothalonil	50534-188-100	Kori
Mana	**KE0-61175**	**Corn**	Michael	K51337	1/19/2016	**PS**		**2.9**	12HR	Bravo	Chlorothalonil	50534-188-100	Kori
Mana	**KE0-62192**	**Corn**	Michael	K51337	1/19/2016	**PS**		**1.1**	12HR	Bravo	Chlorothalonil	50534-188-100	Kori
Mana	**KE1-61204**	**Corn**	Michael	K51337	1/19/2016	**PS**		**3.5**	12HR	Bravo	Chlorothalonil	50534-188-100	Kori
Mana	**KE0-62181**	**Corn**	Michael	K51337	1/19/2016	**PS**		**2**	12HR	Bravo	Chlorothalonil	50534-188-100	Kori
Mana	**KE0-63212**	**Corn**	Michael	K51337	1/19/2016	**PS**		**3.2**	12HR	Bravo	Chlorothalonil	50534-188-100	Kori
MANA	**PPT-62186**	**Corn**	Michael	K51337	1/19/2016	**PPT**		**0.8**	12HR	Bravo	Chlorothalonil	50534-188-100	Dereck

Hanamaulu	400	Corn							4 HR	Dipel	BT	73049-39	N/A
Hanamaulu	410	Corn							4 HR	Dipel	BT	73049-39	N/A

afternoon SSW 4-8
ALL DROPS
Bees=Belt afternoon
Bees=Belt afternoon WSW 4-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon 300P
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW
Bees=Belt afternoon WSW
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8
Bees=Belt afternoon WSW 6-8

.064444
7.16
1.25

Gutierrez's Notes on Spraying Fields on 01/19/16.
Syngenta Hawaii 12.68

C.W.

C.W. 01/19/2016

Operator:	Ed	**Application Date:**	Wednesday, December 30, 2015
Certified Applicator, Cert #:	k51479	**REI (hrs):**	24
Equipment Used:	Nitro - #3	**Emergency Contact:**	Emilee Wedekind
Sprayer Configuration:	Broadcast	**Equipment Cleanup:**	Flush with Water
Required PPE:	See Label(s) supplied with chemical container(s)		
Special Instructions:			

Application Locations:

Field Information			Area	Overage 3%	Total
					19.0

PRODUCT	RATE		TOTALS		Mixing Chart in Ac Load #1	Load #2	Load #3	Load #4
					19			
Water	50		950	(gal)	950	0	0	0
Liquids *(fl oz/acre)*								
			4	(gal)	4	0	0	0
Lorsban Advanced	32.0		96	(fl oz)	96	0	0	0
			0	(gal)	0	0	0	0
Quilt		10.5	0	(fl oz)	0	0	0	0
			0	(gal)	0	0	0	0
Quadris		9.0	0	(fl oz)	0	0	0	0
			0	(gal)	0	0	0	0
PERMETHRIN	6.0	6.0	114	(fl oz)	114	0	0	0
Granules/Powders *(oz/acre)*								
			0	(lbs)	0	0	0	0
Manzate		24.0	0	(oz)	0	0	0	0
			38	(lbs)	38	0	0	0
Xentari	32.0	32.0	0	(oz)	0	0	0	0
Liquids *(fl oz/100 gal)*								
			0	(gal)				
Indicate	5.0		48	(fl oz)	48	0	0	0

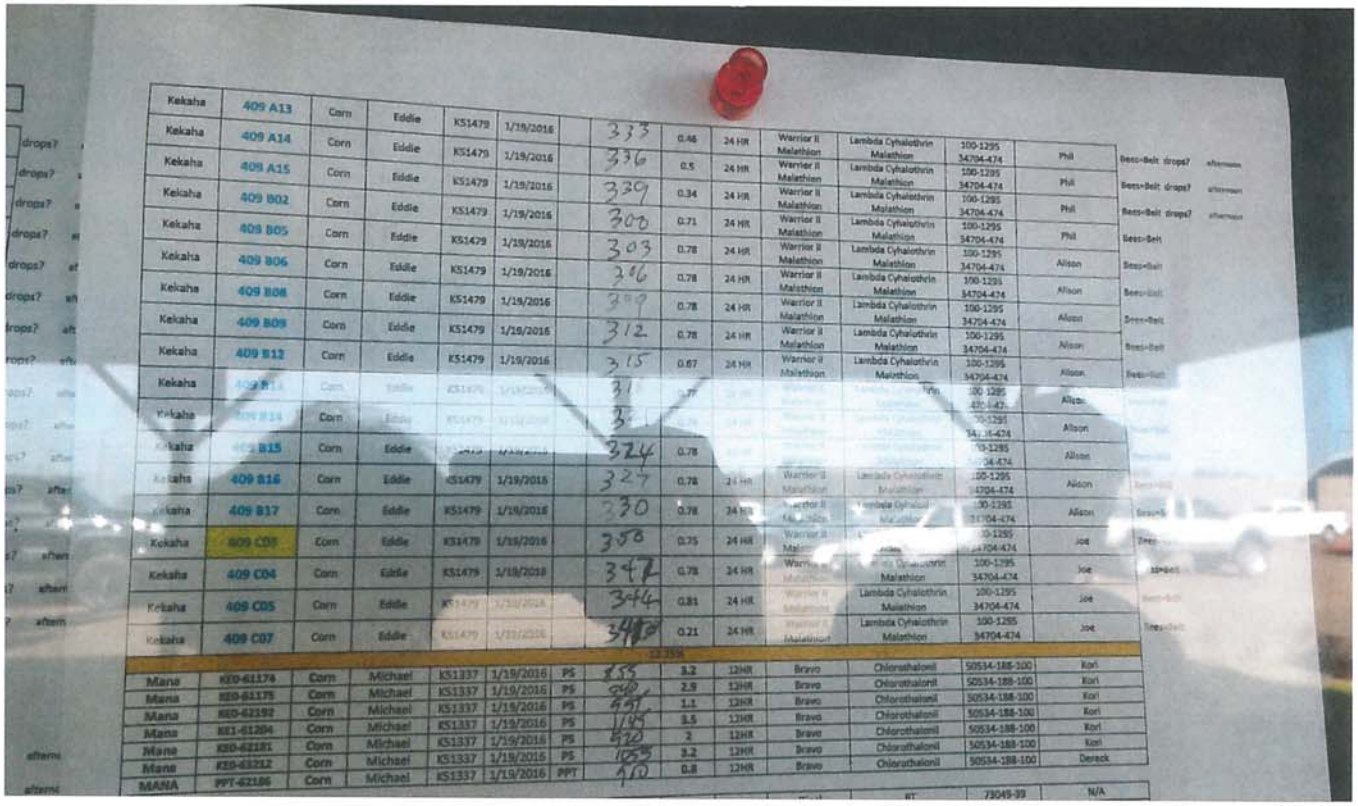
BOTTLE OF DUBBLE GUM

Instructions given by E. Wedekind to E. Gutierrez for 01/19/16

Syngenta Hawaii 01/20/16

TUESDAY

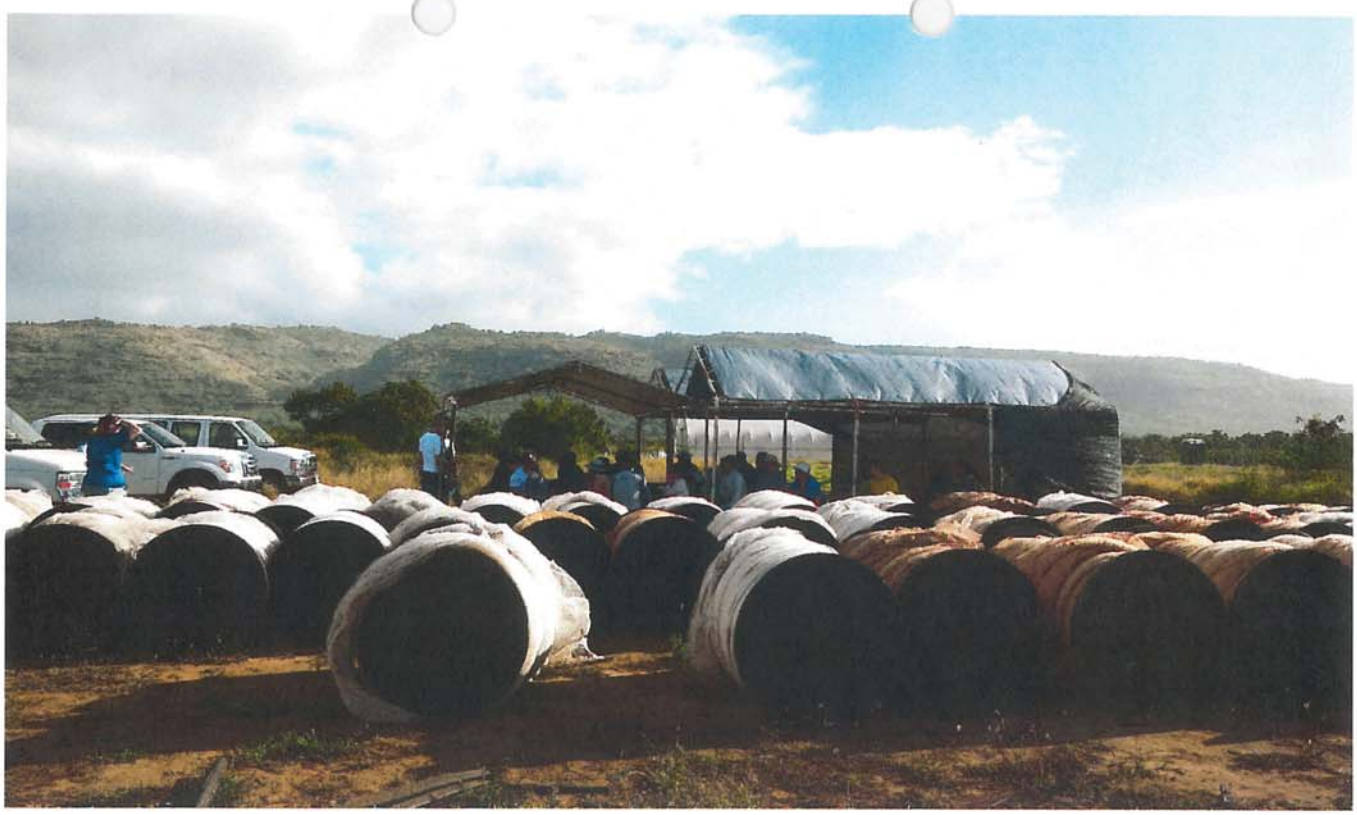
Location	Field	Crop	Applicator	License	Date	Track	Time Applied	Acres	REI	Brand Name	Active Ingredient	EPA Number	Trial Manager	
Kekaha	312 A15	Corn	Eddie	KS1479	1/19/2016		139	0.74	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A16	Corn	Eddie	KS1479	1/19/2016		136	0.74	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A17	Corn	Eddie	KS1479	1/19/2016		133	0.62	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A18	Corn	Eddie	KS1479	1/19/2016		130	0.53	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A19	Corn	Eddie	KS1479	1/19/2016		121	0.46	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A20	Corn	Eddie	KS1479	1/19/2016		118	0.71	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A25	Corn	Eddie	KS1479	1/19/2016		1257	0.68	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A26	Corn	Eddie	KS1479	1/19/2016		1254	0.74	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A27	Corn	Eddie	KS1479	1/19/2016		1245	0.74	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A28	Corn	Eddie	KS1479	1/19/2016		1236	0.74	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 A29	Corn	Eddie	KS1479	1/19/2016		1233	0.74	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
		Corn	Eddie				1239	0.81				62719-591 34704-873	Phil	
		Corn	Eddie				1242	0.68	24 HR	Lorsban Permethrin		62719-591 34704-873	Phil	drops?
					1/19/2016		1248	0.81	24 HR	Lorsban Permethrin		2719-591 34704-873	Phil	
		Corn			1/19/2016		1251	0.81	24 HR	Lorsban Permethrin		62719-591 4-873	Phil	
Kekaha	312 B20	Corn			1/19/2016		100	0.81	24 HR	Lorsban Permethrin		62719-591 34704-873	Joe	
		Corn	Eddie	KS1479	1/19/2016		103	0.54	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Joe/Justin	
					1/19/2016		106	0.48	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Justin M.	
							109	0.81	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 B24	Corn	Eddie	KS1479	1/19/2016		112	0.81	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 B25	Corn	Eddie	KS1479	1/19/2016		115	0.81	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Phil	drops?
Kekaha	312 B26	Corn	Eddie	KS1479	1/19/2016		1:2	0.81	24 HR	Lorsban Permethrin	Chlorpyrifos Permethrin	62719-591 34704-873	Joe	
		Corn	Eddie	KS1479	1/19/2016		127	0.81	24 HR	Lorsban Permethrin	Chlorpyrifos	62719-591		



Kekaha	409 A13	Corn	Eddie	KS1479	1/19/2016		333	0.46	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil	Beer=Belt drops?
Kekaha	409 A14	Corn	Eddie	KS1479	1/19/2016		336	0.5	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil	Beer=Belt drops?
Kekaha	409 A15	Corn	Eddie	KS1479	1/19/2016		339	0.34	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil	Beer=Belt drops?
Kekaha	409 B02	Corn	Eddie	KS1479	1/19/2016		300	0.71	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Phil	Beer=Belt
Kekaha	409 B05	Corn	Eddie	KS1479	1/19/2016		303	0.78	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison	Beer=Belt
Kekaha	409 B06	Corn	Eddie	KS1479	1/19/2016		306	0.78	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison	Beer=Belt
Kekaha	409 B08	Corn	Eddie	KS1479	1/19/2016		309	0.78	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison	Beer=Belt
Kekaha	409 B09	Corn	Eddie	KS1479	1/19/2016		312	0.78	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison	Beer=Belt
Kekaha	409 B12	Corn	Eddie	KS1479	1/19/2016		315	0.67	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison	Beer=Belt
Kekaha							31					100-1295	Alison	
Kekaha		Corn					3					0-1295	Alison	
Kekaha	B15	Corn	Eddie				324	0.78				0-1295	Alison	
Kekaha	409 B16	Corn	Eddie	KS1479	1/19/2016		327	0.78	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison	
Kekaha	409 B17	Corn	Eddie	KS1479	1/19/2016		330	0.78	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Alison	
Kekaha	409 C03	Corn	Eddie	KS1479	1/19/2016		358	0.75	24 HR	Warrior II Malathion		0-1295 34704-474	Joe	
Kekaha	409 C04	Corn	Eddie	KS1479	1/19/2016		347	0.78	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Joe	
Kekaha	409 C05	Corn	Eddie	KS1479	1/19/2016		344	0.81	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Joe	
Kekaha	409 C07	Corn	Eddie	KS1479	1/19/2016		3410	0.21	24 HR	Warrior II Malathion	Lambda Cyhalothrin Malathion	100-1295 34704-474	Joe	
							12:35h							
Mana	KED-61174	Corn	Michael	KS1337	1/19/2016	PS	855	3.2	12HR	Bravo	Chlorothalonil	50534-188-100	Kori	
Mana	KED-61175	Corn	Michael	KS1337	1/19/2016	PS	848	2.9	12HR	Bravo	Chlorothalonil	50534-188-100	Kori	
Mana	KED-62192	Corn	Michael	KS1337	1/19/2016	PS	841	1.1	12HR	Bravo	Chlorothalonil	50534-188-100	Kori	
Mana	KEI-61204	Corn	Michael	KS1337	1/19/2016	PS	1145	1.5	12HR	Bravo	Chlorothalonil	50534-188-100	Kori	
Mana	KED-62181	Corn	Michael	KS1337	1/19/2016	PS	920	2	12HR	Bravo	Chlorothalonil	50534-188-100	Kori	
Mana	KED-62212	Corn	Michael	KS1337	1/19/2016	PS	1053	3.2	12HR	Bravo	Chlorothalonil	50534-188-100	Derack	
MANA	PPT-62186	Corn	Michael	KS1337	1/19/2016	PPT	910	0.8	12HR	Bravo				
												73049-39	N/A	

01-20-16, 9:19AM, CNS and posted information about field 312-A25.

Syngenta Hawaii
01-20-16



9:25AM, 01-20-16 Workers waiting at 313 Break Area. Syngenta Hawaii 01-20-16

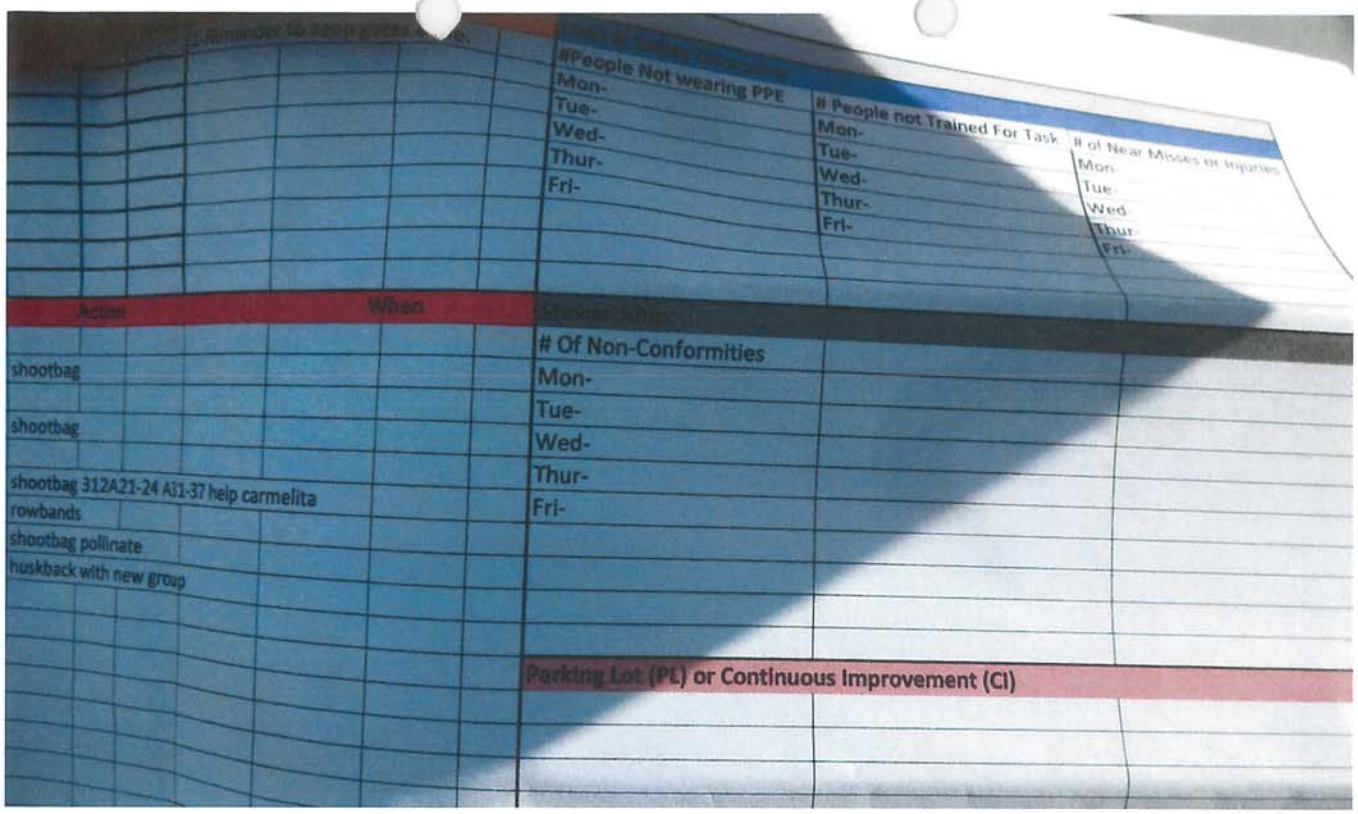
Outcome:

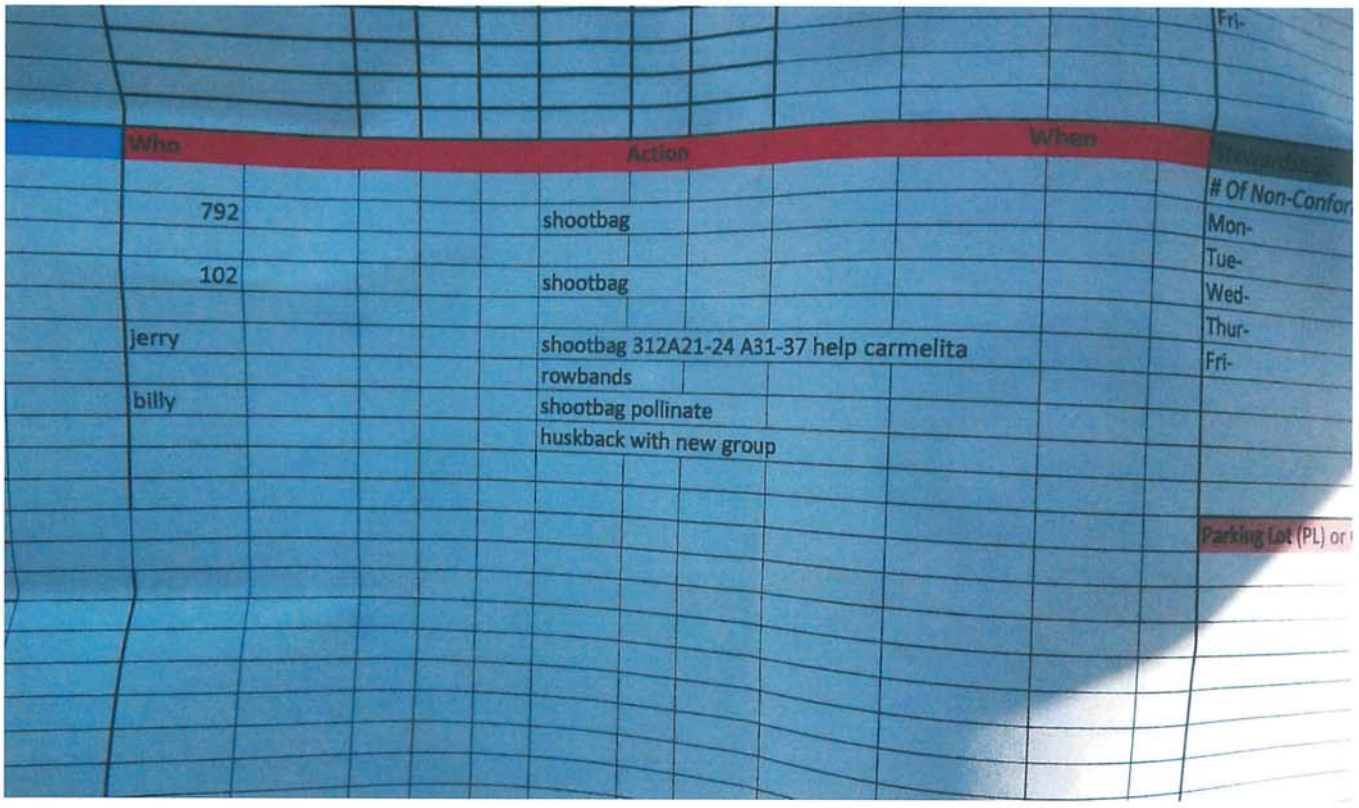
Objective:

Output:

KPI's	Items	Rate:	Who	Action
	Sampling		792	shootbag
	Plot Staking		102	shootbag
	Row Banding		Jerry	shootbag 312A21-24 A3
				rowbands
x	Shoot Bagging		billy	shootbag pollinate
				huskback with new grou
x	Pollination			
	Husk Back			
	Deworming			
	Harvest			
	Shelling/Threshing			

Work instructions provided to Kanahele from Philip Kali. Syngenta Hawaii 01-20-16





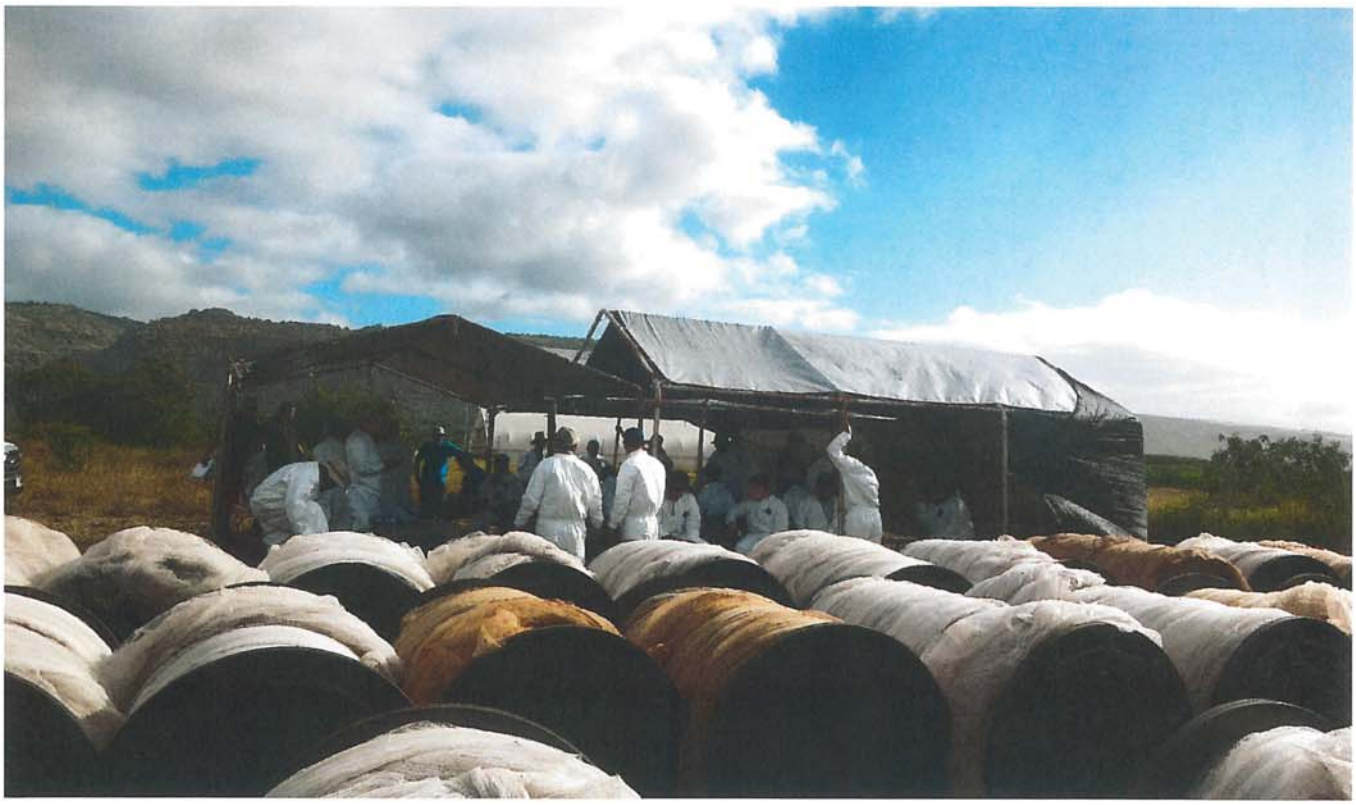
Work instructions provided to Kanahele from Philip Kali.

Syngenta Hawaii
01-20-16

01-20-16, 9:33AM, Arthur Brun handing out tyvek suits at 313 Break Area and instructing workers to put them on.

Workers putting on tyvek suits over work clothing.

Syngenta Hawaii
01-20-16



01-20-16, 9:37AM 313 Break Area. All workers have tyvek suits on.

Syngenta Hawaii
01-20-16

01-20-16, 9:43AM. Field sign at field 312-A25. Field sign is "Up".

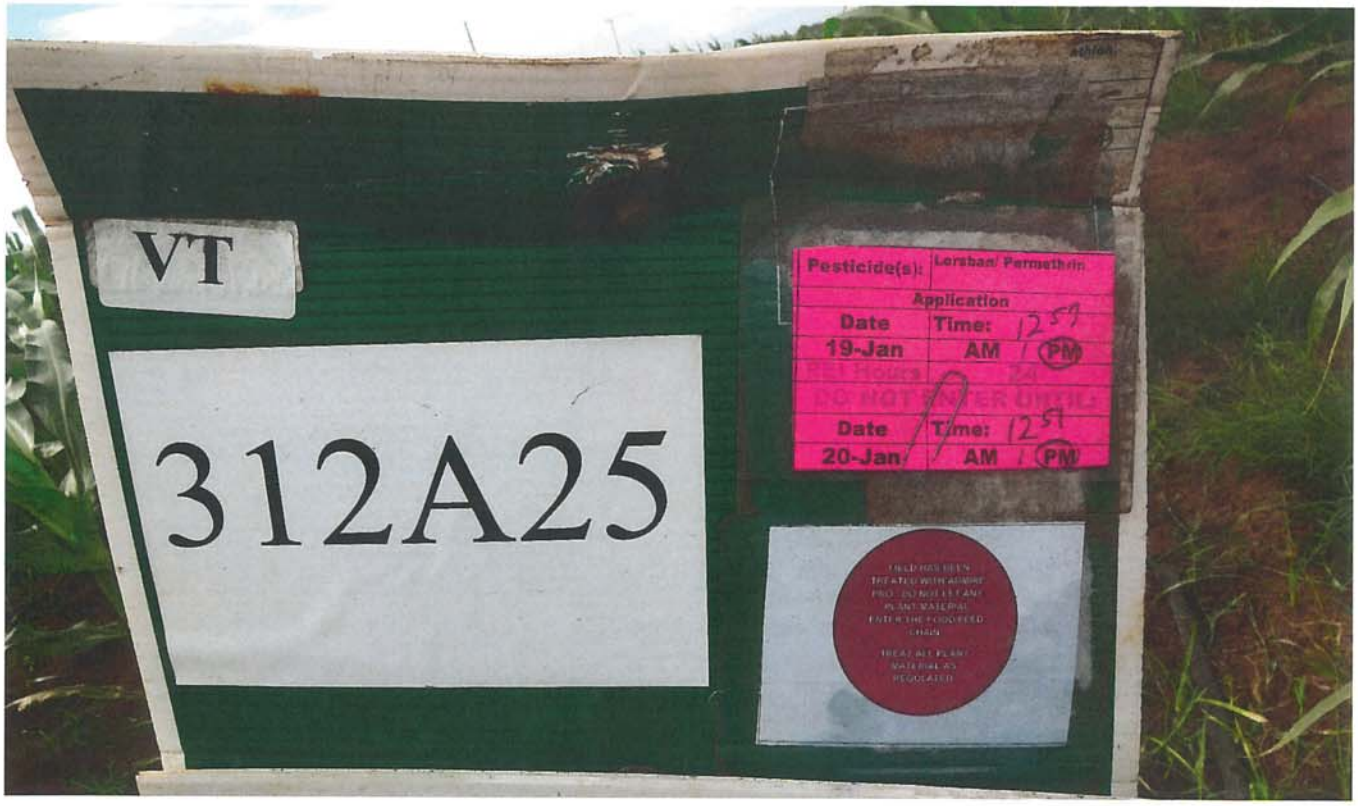
Field 25 is 90ft. wide (36 rows of corn). The field sign is posted at the left-side of every field.
Field sign was not properly "reposted" and left in the "up position"

Syngenta Hawaii
01-20-16

This is the field sign "down" and warning people to stay out.
Field was properly reposted by Wedekind, 9:44AM

Syngenta Hawaii
01-20-16

Pink REI information stickers
Information posted at field sign by Alfred Balauro on 01-19-16, prior to the field being sprayed.

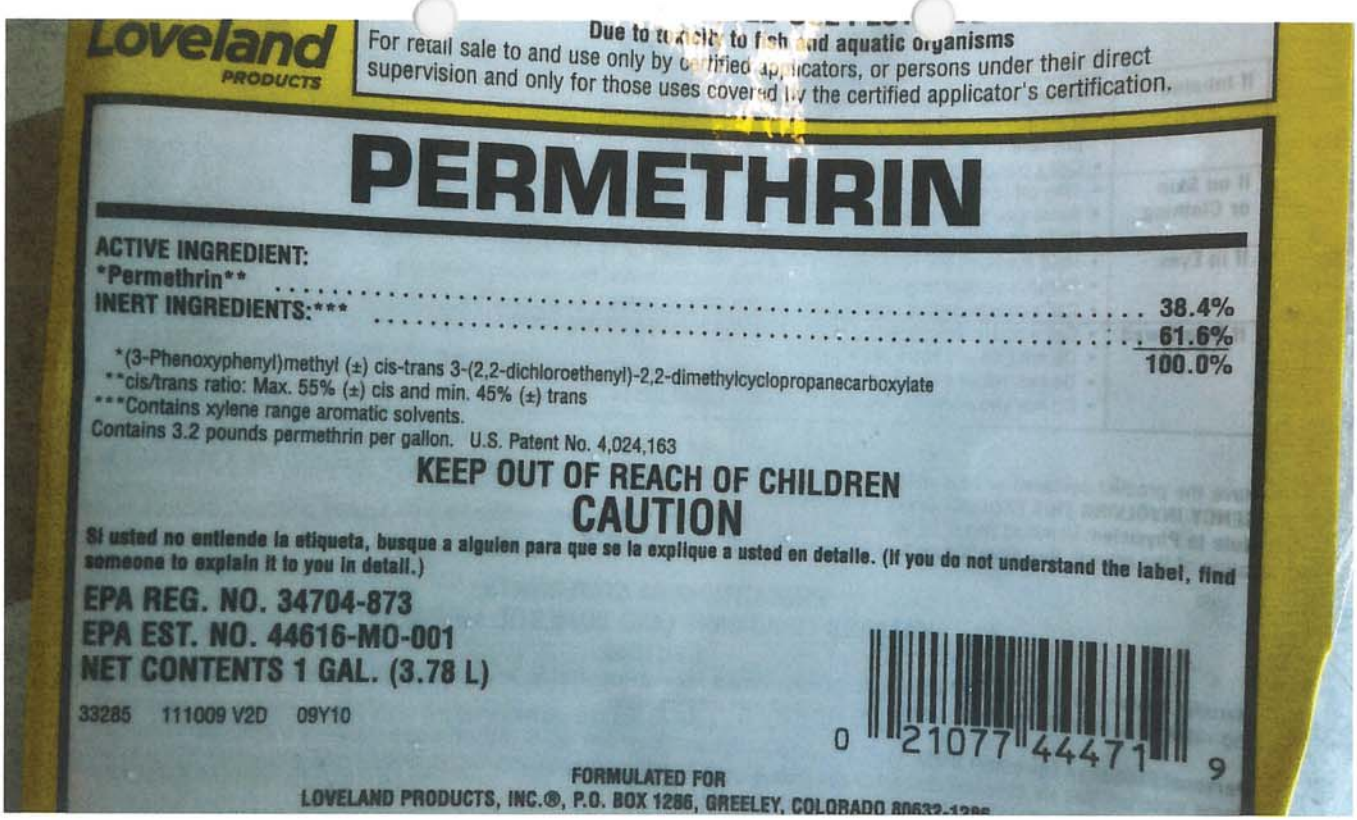


Syngenta Hawaii
01-20-16

Rowband on corn in field 312-A25.

Vehicle parked outside of field 312-A25 at 9:47AM.
Person did not enter field 312-A25 because he read the pink REI sticker information.

Syngenta Hawaii
01-20-16



Loveland PRODUCTS

Due to toxicity to fish and aquatic organisms

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

PERMETHRIN

ACTIVE INGREDIENT:	
*Permethrin**	38.4%
INERT INGREDIENTS:***	61.6%
	100.0%

*(3-Phenoxyphenyl)methyl (±) cis-trans 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
**cis/trans ratio: Max. 55% (±) cis and min. 45% (±) trans
***Contains xylene range aromatic solvents.
Contains 3.2 pounds permethrin per gallon. U.S. Patent No. 4,024,163

KEEP OUT OF REACH OF CHILDREN

CAUTION

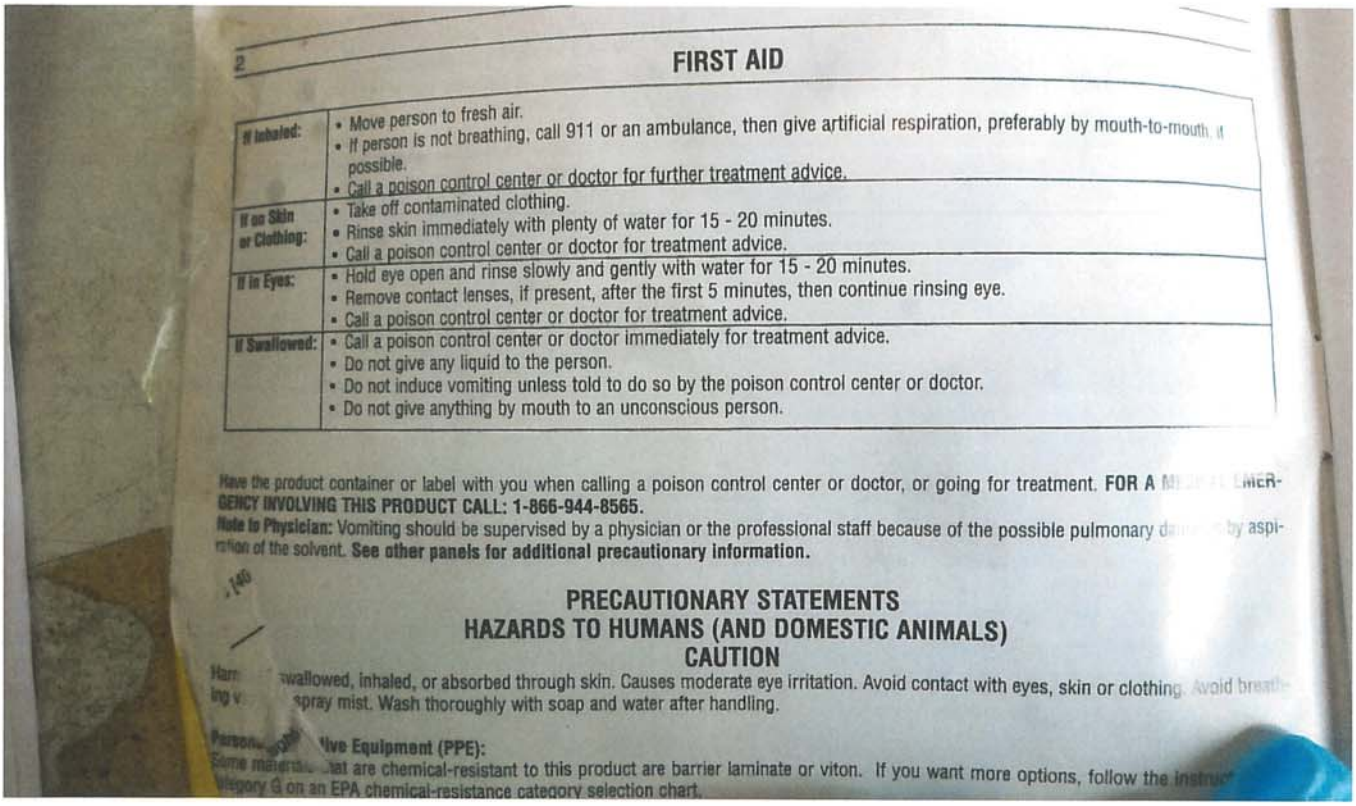
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA REG. NO. 34704-873
EPA EST. NO. 44616-MO-001
NET CONTENTS 1 GAL. (3.78 L)

33285 111009 V2D 09Y10

0 21077 44471 9

FORMULATED FOR
LOVELAND PRODUCTS, INC.®, P.O. BOX 1286, GREELEY, COLORADO 80632-1286



2

FIRST AID

If Inhaled:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.
If in Eyes:	• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If Swallowed:	• Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **FOR A M... EMER-GENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.**
Note to Physician: Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary d... by aspi-ration of the solvent. **See other panels for additional precautionary information.**

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
CAUTION

Harm... swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breath-ing v... spray mist. Wash thoroughly with soap and water after handling.

Perso... ...tive Equipment (PPE):
Some mater... ...that are chemical-resistant to this product are barrier laminate or viton. If you want more options, follow the instruc... ...tegory G on an EPA chemical-resistance category selection chart.

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:
- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves,
- Chemical resistant footwear plus socks, and
- Chemical-resistant headgear, if overhead exposure.

Do not apply this product using ULV cold foggers or fog/mist generators in outdoor areas.

All other mixers, loaders, applicators, and handlers must wear:
- Long-sleeve shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers,
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate.

See engineering controls for additional requirements.

User Safety Requirements:
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls:
Pilots must use an enclosed cockpit that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

Users should:
- Wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Spray and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily adsorbed to suspended soil particles) for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE
RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Resistance. Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.
If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

BUFFER ZONES:
Vegetative Buffer Strip
Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and downgradient aquatic habitat (such as, but not limited to lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries and commercial fish farm ponds).

Only apply products containing P ETHRIN onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. www.in.nrcs.gov/technical/agronomy/newconbuf.pdf

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast).
Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs. rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application:
Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application:
Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements:
Wind Direction and Speed
Only apply this product if the wind direction favors on-target deposition.
Do not apply when the wind velocity exceeds 15 mph.
Temperature Inversion
Do not make aerial or ground applications into temperature inversions.
Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
Droplet Size
Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.
Additional Requirements for Aerial Applications
The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.
Flight speed and nozzle orientation must be considered in determining droplet size.
Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.
Application Precautions and Restrictions:
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.
Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:
- Coveralls,
- Shoes plus socks,
- Chemical-resistant gloves made of any waterproof material.

PROHIBITION - Harvesting of conifer seed cones is prohibited within 30 days of application.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler including center pivot, lateral move end tow, side (wheel) roll, traveler, big gun, solid set, or hand move house systems) used for pesticide application to a public water system. irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including green-

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Permethrin insecticide should be applied continuously for the duration of the water application. Permethrin should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.1 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

COMMERCIAL IMPREGNATION ... FERTILIZERS

Permethrin insecticide may be impregnated on dry bulk fertilizers. When applied as directed, Permethrin/dry bulk fertilizer mixtures provide weed control equal to that provided by the same rates of Permethrin applied in water. The Permethrin/fertilizer mixtures may be surface applied or shallow incorporated. The higher rate should be used if incorporation is used.

Impregnation: Apply using a minimum of 200 pounds of dry bulk fertilizer per acre and up to a maximum of 450 pounds per acre with the recommended amount of Permethrin insecticide per acre. Use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle(s) should be positioned to provide a uniform, fine spray pattern over the tumbling fertilizer for thorough coverage. The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with Permethrin provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, the use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel® E (World Minerals Corporation) is a recommended absorbent powder. Generally less than 2% by weight of Microcel E is required. **DO NOT** impregnate Permethrin onto straight coated ammonium nitrate or straight limestone because these materials will not absorb the insecticide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with Permethrin.

The amount of Permethrin actually required in the preparation of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of pesticide actually contained in the mixture applied to the soil represents the correct rate of use. Bulk fertilizer impregnated with Permethrin insecticide should be applied immediately, not stored.

All individual state regulations relating to bulk dry fertilizer blending, registration, labeling, and application of the mixtures are the responsibility of the individual and/or company selling the fertilizer and Permethrin mixture.

APPLICATION INSTRUCTIONS

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

Permethrin is a 3.2 pounds per gallon formulation of the insecticide permethrin. Apply Permethrin when insects appear or feeding is noticed. The higher rate should be used as pest populations increase. Repeat the application as necessary to maintain control. Permethrin may be applied by both ground and aerial equipment. Use sufficient water to obtain full coverage. With the exception of crops listed below, additional crops should not be planted within 60 days of last application.

Not for use in outdoor residential misting systems.

This label must be in the possession of the user at the time of application.

...ILIZERS
...ures provide insect
...ation is used.
...acre with the rec-
...uipped with suit-
...lizer for thorough
...ple spray impreg-
...a highly absorp-
...sorbent powder.
...itrate or straight
...ate or limestone
...or each produc-
...resents the cor-
...e responsibility
...ing is noticed.
...nay be applied
...al crops

Alfalfa; Alfalfa grown fo...d (0 day phi)* (Includes lucerne, sainfoin, holy clover, esparcet, birdsfoot trefoil and varieties and/or hybrids of these)

Insects Controlled	Rate of Application	Method of Application
Alfalfa Caterpillar,Armyworms, Blue Alfalfa Aphid, Cutworms, Green Cloverworm, Green Peach Aphid, Loopers, Pea Aphid, Spotted Alfalfa Aphid, Velvet bean Caterpillar, Webworms	2 to 8 ounces (0.05 to 0.2 pound active) per acre	Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or 2 gallons of finished spray per acre by aircraft.
Alfalfa Weevil, Cucumber Beetle, Egyptian Alfalfa Weevil, Meadow Spittlebug, Plant Bugs (including *Lygus* spp.), Potato Leafhopper, Stink Bugs	4 to 8 ounces (0.1 to 0.2 pound active) per acre	

Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre.
Minimum Retreatment Interval is 30 days. Seasonal Maximum Application Rate is 8 fl. oz. of product (0.2 lb. active)/Acre per cutting.
Do not apply to mixed stands with intentionally-grown forage grasses and/or legumes.
* When **rates greater than 0.1 pounds active** per acre are used, do not apply **within 14 days of harvest.**

Almonds (7 day phi)

Insects Controlled	Rate of Application	Method of Application
Navel Orangeworm, Peach Twig Borer	8 to 10 ounces (0.2 to 0.25 pound active) per acre	Apply when insects appear. Apply in a minimum of 15 gallons of finished spray per acre by aircraft or 25-400 gallons of finished spray per acre with ground equipment.
Ants	10 ounces (0.25 pound active) per acre	Apply by ground equipment in a minimum of 15 gallons of finished spray per acre. Application should follow mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.

Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre.

...not all cultivars
... cultivar, treat a
...of finished
...f

Conifers (Container and Field Grown)

Insects Controlled	Rate of Application	Method of Application
Nantucket Pine Tip Moth	4 to 8 fluid ounces (0.1 to 0.2 pound active) per acre	Permethrin may be diluted in a non-volatile vegetable oil or water in a minimum of 1 gallon of finished spray per acre using equipment calibrated to give adequate coverage. Begin application when the adults appear and repeat at 5 to 7 day intervals throughout the season.

Corn (Field), Field Corn Grown for Seed, Popcorn (0-day phi – Forage, 30-day phi – Grain and Fodder (Stover))
General Restrictions:
Field Corn:
Maximum rate per application is 6 fl. oz. of product (0.15 lb. active)/Acre.
Minimum Retreatment Interval is 7 days.
Seasonal Maximum Application Rate is 18 fl. oz. of product (0.45 lb. active)/Acre per year.

Insects Controlled	Rate of Application	Method of Application
Preemergent Use: Armyworms, Cutworms, Stalk Borers, Seed Corn Maggot*, Wireworm*	4 to 8 ounces (0.1 to 0.2 pound active) per acre as a broadcast spray OR 0.3 to 0.6 ounces per 1000 linear feet row (based on a 4" band and 40" row spacing.)	Permethrin may be applied as a preplant incorporated, pre-emergence, or at planting time application. Apply as a broadcast spray by ground or air (minimum of 2 gallons finished spray per acre by air) or 4-15 inch band using sufficient spray volume to achieve adequate coverage. Linear row calculations should be used proportional to the standard Band Width/Row Width formula to adjust rates for different band widths or row spacings. Use higher rates of Permethrin when incorporating into the soil without exceeding the recommended dosage. When using tank mixes, observe all restrictions and precautions which appear on the labels of these products. Provide constant agitation during mixing and application to keep the mixture in solution. Apply as an in-furrow, band or T-band treatment using a minimum 4" band. Use table below to determine the Permethrin needs for each acre.

Corn (Field), Field Corn Grown for Seed, Popcorn
Field Corn cont'd.:

Row Spacings (inches) @ 0.3 oz rate	40	30
Permethrin (pounds ai per acre)	0.10	0.15
Permethrin (formulated ounces per acre)	4.0	6.0

Insects Controlled	Rate of Application	Method of Application
Foliar Use: Armyworm (including Fall and Southern Armyworm), Corn Borer European Southwestern, Corn Earworm, Corn Rootworm Beetles*, Cutworms, Flea Beetle, Hop Vine Borer, Stalk Borers, Leafhoppers, Webworms	4 to 8 ounces (0.1 to 0.2 pound active) per acre	When treating for stalk borers, Permethrin must be applied when or shortly before the stalk borer larvae are moving into the corn from surrounding weeds and grasses. Mowing or burndown herbicide are suggested to initiate movement. For control of Corn Earworm apply just before silking and continue as necessary to maintain control. Apply a minimum of 2 gallons of finished spray per acre by air or 10 gallons per acre with ground equipment.
Foliar Use: Western Bean Cutworm	2 to 4 ounces (0.05 to 0.1 pound active) per acre	

Forage may be harvested on the day of application.
*Not in California

Sweet Corn: (1 day phi)

Insects Controlled	Rate of Application	Method of Application
Corn Earworm, Corn Rootworm Beetles*, Cutworms, European Corn Borer, Fall Armyworm, Flea Beetle, Hop Vine Borer, Leafhoppers, Southern Armyworm, Stalk Borers, Webworm, Southwestern Corn Borer	4 to 8 ounces (0.1 to 0.2 pound active) per acre	Apply every 3 to 5 days. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. *Pest does not occur on this crop in California.

Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre.
Minimum Retreatment Interval is 3 days.
Seasonal Maximum Application Rate is 32 fl. oz. of product (0.8 lb. active)/Acre per year.

Cucurbit Vegetables (0 day phi): such as **Chayote (fruit)** *(Sechium edule)*; **Chinese waxgourd (Chinese preserving melon)** *(Bernincasa hispida)*; **Citron melon** *(Citrullus lanatus var. citroides)*; **Cucumber** *(Cucumis sativus)*; **Gherkin** *(Cucumis anguria)*; **Gourd, edible** *(Lagenaria* spp.*)* (includes hyotan, cucuzza); ***Luffa* spp.** (includes hechima, Chinese okra); ***Momordica* spp)** (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); **Muskmelon** hybrids and/or cultivars of *Cucumis melo* (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); **Pumpkin** *(Cucurbita* spp.*)*; **Squash, summer** *(Cucurbita pepo* var. *melopepo)* (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); **Squash, winter** *(Cucurbita maxima; C. moshata)* (includes butternut squash, calabaza, hubbard squash); ***C. mixta; C. pepo*** includes acorn squash, spaghetti squash); **Watermelon** (includes hybrids and/or varieties of *Citrullus* spp.).

Insects Controlled	Rate of Application	Method of Application
Aphids, Leafminers, Squash Bug	8 ounces (0.2 pound active) per acre	Apply with ground equipment in a minimum spray volume of 20 gallons of finished spray per acre or in a minimum of 4 gallons per acre by aircraft.
Cabbage Looper, Cucumber Beetle (adults), Cutworms, Leafhoppers, Melonworm, Pickleworm, Plant Bugs (including Lygus and Stink Bugs), Rindworms, Squash Vine Borer	4 to 8 ounces (0.1 to 0.2 pound active) per acre	

For retail sale to and use only by Ce[illegible] Applicators or persons under their direct supervision and [illegible] those uses covered by the Certified Applicator's certification.

Dow AgroSciences

Lorsban® Advanced

Insecticide

For control of listed insects infesting certain field, fruit, nut, and vegetable crops.

Group	1B	INSECTICIDE

Active Ingredient:
chlorpyrifos: O,O-diethyl-O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate 40.18%
Other Ingredients 59.82%
Total 100.00%

Contains 3.755 lb of chlorpyrifos per gallon.
Contains petroleum distillates

Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

Advanced

Insecticide

For control of listed insects infesting certain field, fruit, nut, and vegetable crops.

Group	1B	INSECTICIDE

Active Ingredient:
chlorpyrifos: O,O-diethyl-O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate 40.18%
Other Ingredients 59.82%
Total 100.00%

Contains 3.755 lb of chlorpyrifos per gallon.
Contains petroleum distillates.

Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Keep Out Of Reach Of Children

WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Do not freeze

EPA Reg. No. 62719-591

EPA Est. 464-MI-1
900-016305 / 00309547

Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

Table of Contents

Precautionary Statements

Hazard to Humans and Domestic Animals

WARNING

May Be Fatal If Swallowed • Causes Skin Irritation • Causes Moderate Eye Irritation • Harmful If Inhaled • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Do not get on skin or on clothing. Avoid contact with eyes and breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

First Aid

Organophosphate

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Note to physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Note to physician: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Personal Protective Equipment (PPE)

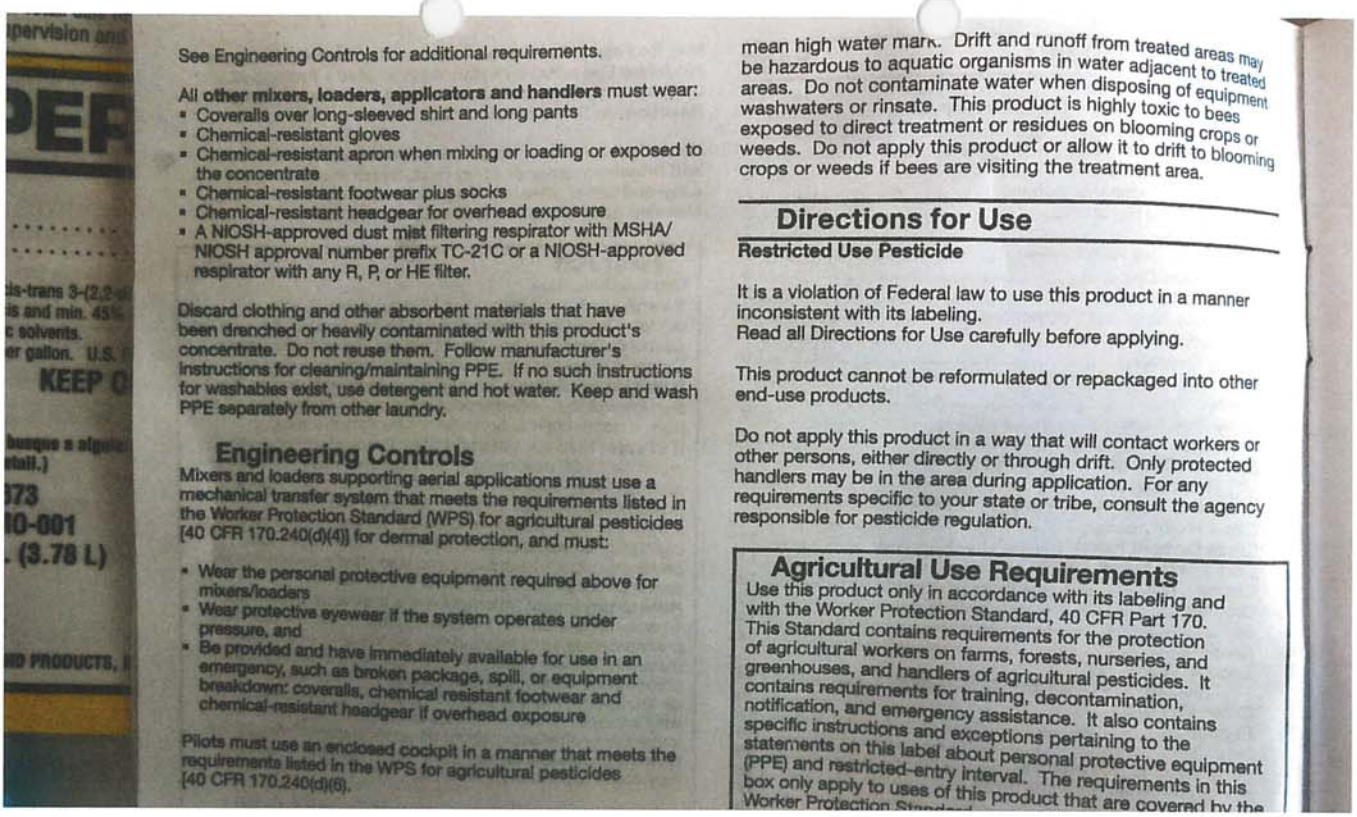
Some materials that are chemical-resistant to this product are barrier laminate and viton. For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category G on an EPA chemical resistance category selections chart.

Mixers and loaders using a mechanical transfer loading system and applicators using aerial application equipment must wear:

- Long-sleeved shirt and long pants
- Shoes and socks

In addition to the above, **mixers and loaders** using a mechanical transfer loading system must wear:

- Chemical-resistant gloves
- Chemical-resistant apron
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R, P, or HE filter



See Engineering Controls for additional requirements.

All **other mixers, loaders, applicators and handlers** must wear:
- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant apron when mixing or loading or exposed to the concentrate
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R, P, or HE filter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

Mixers and loaders supporting aerial applications must use a mechanical transfer system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)] for dermal protection, and must:

- Wear the personal protective equipment required above for mixers/loaders
- Wear protective eyewear if the system operates under pressure, and
- Be provided and have immediately available for use in an emergency, such as broken package, spill, or equipment breakdown: coveralls, chemical resistant footwear and chemical-resistant headgear if overhead exposure

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6).

mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Directions for Use

Restricted Use Pesticide

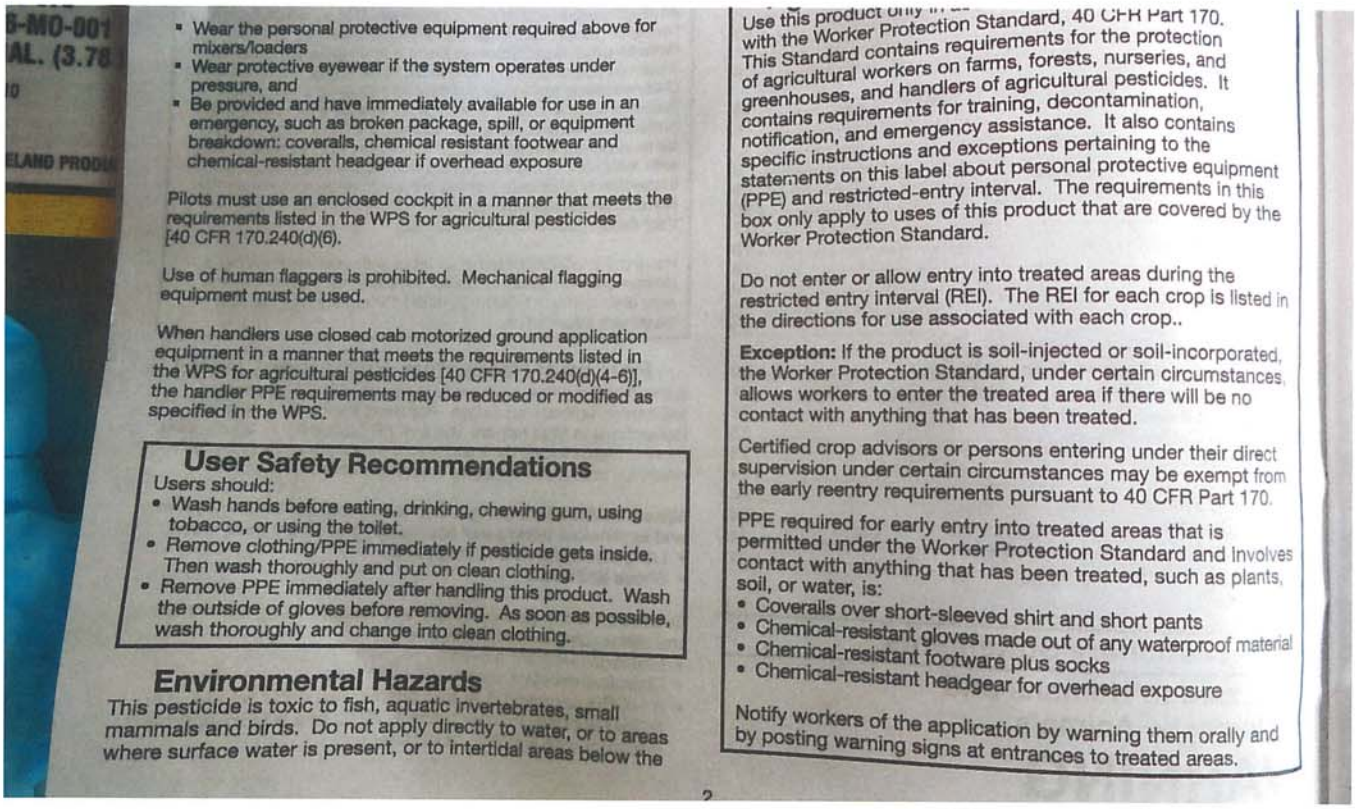
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Read all Directions for Use carefully before applying.

This product cannot be reformulated or repackaged into other end-use products.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.



- Wear the personal protective equipment required above for mixers/loaders
- Wear protective eyewear if the system operates under pressure, and
- Be provided and have immediately available for use in an emergency, such as broken package, spill, or equipment breakdown: coveralls, chemical resistant footwear and chemical-resistant headgear if overhead exposure

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6).

Use of human flaggers is prohibited. Mechanical flagging equipment must be used.

When handlers use closed cab motorized ground application equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop..

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirements pursuant to 40 CFR Part 170.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated, such as plants, soil, or water, is:
- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made out of any waterproof material
- Chemical-resistant footware plus socks
- Chemical-resistant headgear for overhead exposure

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

General Information

Lorsban® Advanced insecticide is an emulsion in water for use in listed crops. This product resists washoff once it is dry. Target pests and application rates are provided in the accompanying tables.

Use Precautions and Restrictions

Insect control may be reduced at low spray volumes under high temperature and wind conditions.

Some reduction in insect control may occur under unusually cool conditions.

Flood irrigation: To avoid contamination of irrigation tail waters, do not flood irrigate within 24 hours following a soil surface or foliar application of Lorsban Advanced.

Do not aerially apply this product in Mississippi.

Insecticide Resistance Management (IRM)
Lorsban Advanced contains a Group 1B insecticide. Insect/mite biotypes with acquired resistance to Group 1B may eventually dominate the insect/mite population if Group 1B insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Lorsban Advanced or other Group 1B insecticides.

To delay development of insecticide resistance, the following practices are recommended:

- Avoid consecutive use of insecticides with the same mode of action (same insecticide group) on the same insect species.
- Use tank mixtures or premix products containing insecticides with different modes of action (different insecticide groups) provided the products are registered for the intended use.
- Base insecticide use on comprehensive Integrated Pest Management (IPM) programs.
- Monitor treated insect populations in the field for loss of effectiveness.
- Contact your local extension specialist, certified crop advisor, and or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact Dow AgroSciences by calling 800-258-3033.

Spray Drift Management
Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland sites, woodlands, pastures, rangelands, or animals.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making the decision to apply this product.

Observe the following precautions when spraying Lorsban Advanced adjacent to permanent bodies of water such as rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial fish ponds.

The following treatment setbacks or buffer zones must be utilized for applications around the above-listed aquatic areas with the following application equipment:

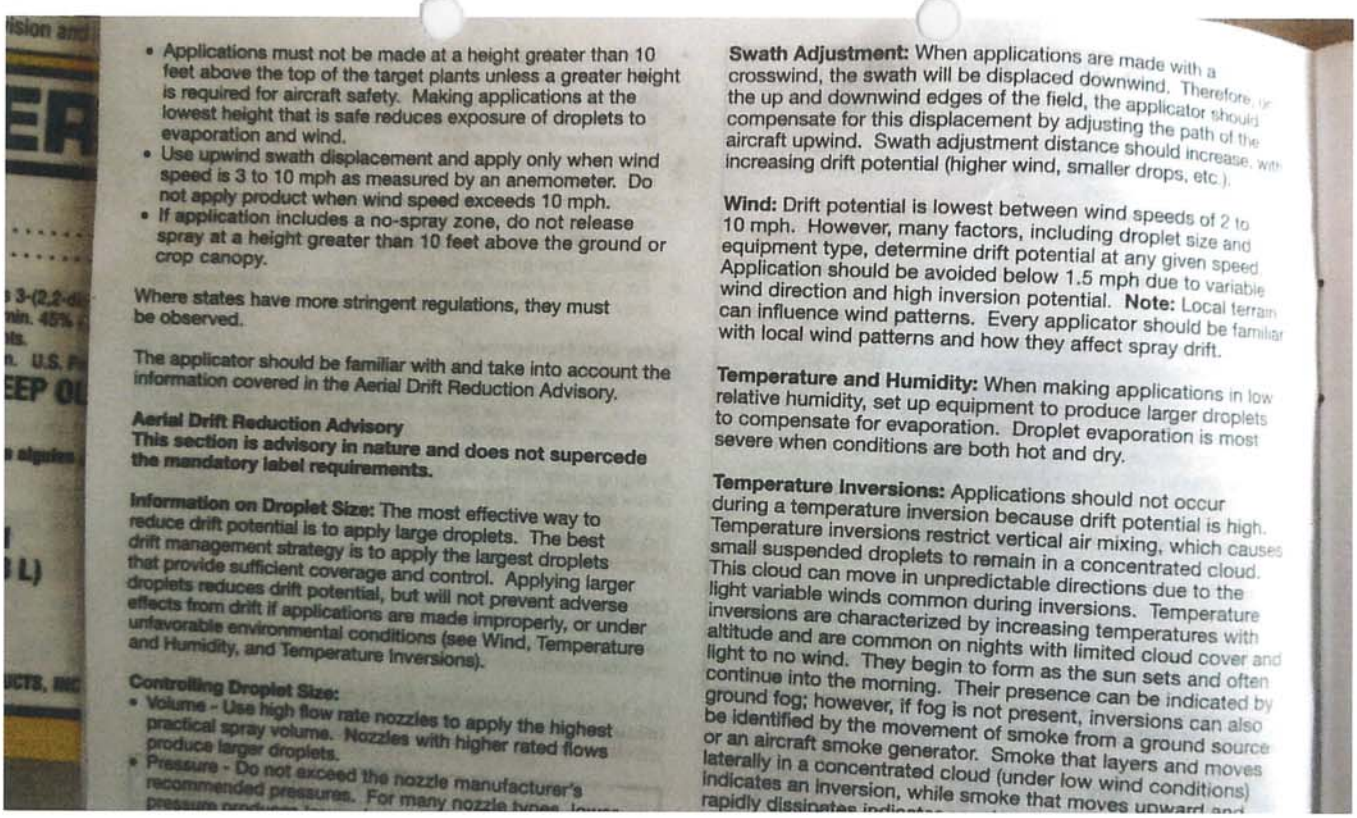
Application Method	Required Setback (Buffer Zone) (feet)
ground boom	25
chemigation	25
orchard airblast	50
aerial (fixed wing or helicopter)	150

Making applications when wind is blowing away from sensitive areas is the most effective way to reduce the potential for adverse effects.

The following spray drift **best management practices** are recommended to avoid off-target drift movement from applications.

Aerial Application

- The boom width must not exceed 75% of the wingspan or 90% of the rotor blade.
- Nozzles must always point backward, parallel with the air stream, and never be pointed downward more than 45 degrees.
- Nozzles must produce a medium or coarser droplet size (255 to 340 microns volume median diameter) per ASABE Standard 572 under application conditions. Airspeed, pressure, and nozzle angle can all effect droplet size. See manufacturer's catalog or USDA/NAAA Applicator's Guide for spray size quality ratings.



- Applications must not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- Use upwind swath displacement and apply only when wind speed is 3 to 10 mph as measured by an anemometer. Do not apply product when wind speed exceeds 10 mph.
- If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.

Where states have more stringent regulations, they must be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory.

Aerial Drift Reduction Advisory
This section is advisory in nature and does not supercede the mandatory label requirements.

Information on Droplet Size: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent adverse effects from drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

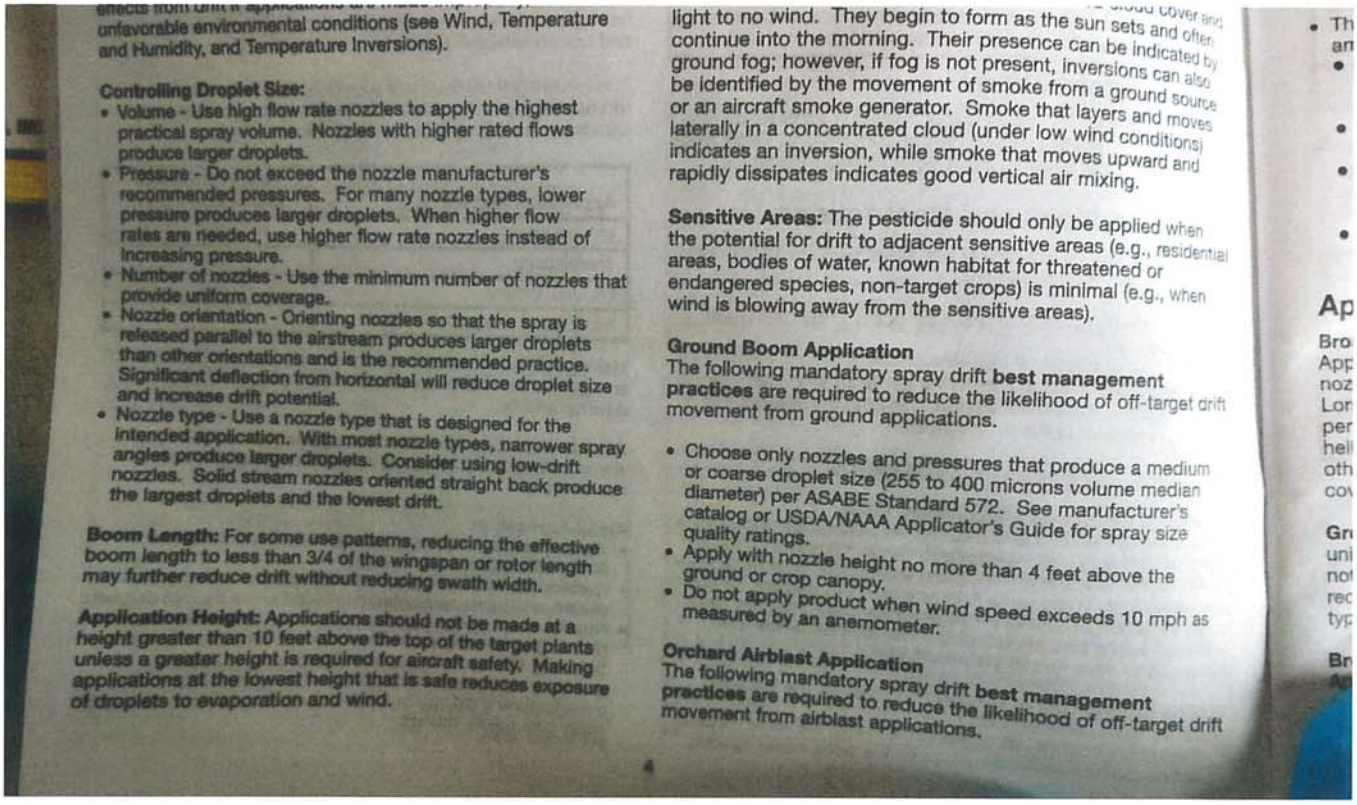
Controlling Droplet Size:
- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator should compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 1.5 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates



effects from drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size:
- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length: For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height: Applications should not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Ground Boom Application
The following mandatory spray drift **best management practices** are required to reduce the likelihood of off-target drift movement from ground applications.

- Choose only nozzles and pressures that produce a medium or coarse droplet size (255 to 400 microns volume median diameter) per ASABE Standard 572. See manufacturer's catalog or USDA/NAAA Applicator's Guide for spray size quality ratings.
- Apply with nozzle height no more than 4 feet above the ground or crop canopy.
- Do not apply product when wind speed exceeds 10 mph as measured by an anemometer.

Orchard Airblast Application
The following mandatory spray drift **best management practices** are required to reduce the likelihood of off-target drift movement from airblast applications.

- Nozzles must be directed so spray is not projected above the canopies.
- Apply only when wind speed is 3 to 10 mph at the application site as measured by an anemometer outside of the orchard/vineyard on the upwind side.
- Outward pointing nozzles must be shut off when turning corners at row ends.

The applicator should take into account the following **best management practices** to reduce off-site spray drift. This section is advisory and does not supercede mandatory label requirements.

- Number of nozzles, nozzle orientation and spray volume, air speed and wind direction are key factors in adjusting airblast spray delivery to match the height and density of the crop canopy. Airblast equipment should be adjusted to provide uniform coverage while minimizing the amount of spray movement over-the-top or completely through the crop canopy.
  - High air volumes deliver spray more efficiently than air at high speed. Reducing forward travel speed decreases the air speed necessary to deliver the spray to the top of the crop canopy.
  - Use air guides along with the number and orientation of spray nozzles to achieve the desired spray coverage and directional control.
- The following steps should be taken to minimize drift and the amount of non-target spray:
  - Orient nozzles and adjust air speed/volume/direction to force the spray through the crop canopy but not allow drift past the canopy.
  - Shut off spray delivery when passing gaps in crop canopy within rows.

Aerial Application
Use a minimum spray volume of 2 gpa. Marking of swaths by mechanical flagging, permanent markers or use of GPS equipment is recommended.

Chemigation Application
Lorsban Advanced may be applied to the following crops through sprinkler irrigation equipment: alfalfa, almond (orchard floors only), citrus (orchard floors only), corn (field and sweet), cotton, cranberry, peppermint, sorghum, soybeans, spearmint, sugarbeet, orchard floors (pecan and walnut), and wheat, or other crops as specified in Dow AgroSciences supplemental labeling. Do not apply this product by chemigation unless specified in crop-specific directions in this label or Dow AgroSciences supplemental labeling. Do not apply to labeled crops through any other type of irrigation system.

Note: Unless otherwise indicated in specific use directions, the application rates for chemigation are the same as those specified for broadcast application.

Use Directions for Sprinkler Irrigation:
The following use directions must be followed when Lorsban Advanced is applied through sprinkler irrigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injector with soap and water. Determine the amount of Lorsban Advanced needed to cover the desired acreage. Mix according to instructions in the Mixing Directions section and bring mixture to desired volume. Do not add crop oil when Lorsban Advanced is applied by chemigation. Maintain continuous agitation during mixing and throughout the application period. Set the sprinkler system to deliver the desired inches of water per acre. Start the water pump and

force the spray through the crop canopy but not allow drift past the canopy.
- Shut off spray delivery when passing gaps in crop canopy within rows.
- Spray the outside rows of orchards from outside in, directing the spray into the orchard and shutting off nozzles on the side of the sprayer away from the orchard.
- When treating smaller trees, vines or bushes, shut off top nozzles to minimize over-the-top spray movement.

Application Directions

Broadcast Foliar Application
Apply with conventional power-operated spray equipment using nozzles and spray pressures specified for insecticides. Apply Lorsban Advanced in a spray volume of not less than 2 gallons per acre (gpa) for aerial application equipment (fixed wing or helicopter) or not less than 10 gpa for ground equipment, unless otherwise specified. Increase spray volume to ensure adequate coverage with increased density and height of crop canopy.

Ground Application: Orient the boom and nozzles so that uniform coverage is obtained. The swath width should not be wider than the boom. Follow nozzle manufacturer's recommendations for insecticide nozzles with respect to nozzle type, pressure, and spacing.

Broadcast Soil Application
Apply with conventional power-operated spray equipment that will apply the product uniformly to the soil surface. Use nozzles that produce medium or coarse droplets (235 to 400 microns). Unless otherwise indicated, a spray volume of 10 gpa or more is needed. For band application, use proportionally less spray volume.

add crop oil when Lorsban Advanced is applied by chemigation. Maintain continuous agitation during mixing and throughout the application period. Set the sprinkler system to deliver the desired inches of water per acre. Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injector system according to Calibration Instructions in the following Special Use Precautions section. The mixture containing Lorsban Advanced must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving to ensure uniform application at the correct rate. When the application is finished, flush and clean the entire irrigation and injector system prior to shutting down the system.

Use Precautions for Sprinkler Irrigation: The following use precautions will result in a safe and successful application of mixtures containing Lorsban Advanced:

- Apply this product only through the following sprinkler irrigation systems: center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, micro sprinkler, or hand move. Do not apply this product through any other type of irrigation system. Do not apply through sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- If you have questions about calibration, contact state extension service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. Refer to the American Society of Agricultural Engineer's Engineering Practice 409 for more information.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. The metering pump must provide a greater pressure than that of the irrigation system at the point of injection. The pump must meet Section 675 for "Electrically Driven or Controlled Irrigation Machines" NEC 70 and must contain viton or Teflon seals.
- To ensure uniform mixing of the insecticide into the water line, inject the mixture through a nozzle placed in the fertilizer injection port or just ahead of an elbow or tee in

- Do not allow irrigation water to collect or run off and pose a hazard to livestock, wells, or adjoining crops.
- Reentry: Follow requirements in the Agricultural Use Requirements section or crop-specific sections of this label.
- Do not apply through sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units.

Mixing Directions

To prepare the spray, add a portion of the required amount of water to the spray tank and, with the spray tank agitator operating, add Lorsban Advanced. Complete filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

Lorsban Advanced is compatible with insecticides, miticides, and fungicides and non-pressure fertilizer solutions commonly recommended except for alkaline materials such as bordeaux mixture and lime. It is always recommended that a small jar compatibility test be run prior to tank mixing. Prepare tank mixtures in the same manner as directed above for use of Lorsban Advanced alone. When tank mixing Lorsban Advanced with herbicides, add wettable powders first, flowables second, and emulsifiable concentrates last. When a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Complex be used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Do not allow spray mixtures to stand overnight.

Tank Mix Compatibility Test: Test compatibility of the intended tank mixture before adding Lorsban Advanced to the spray or mix tank. Add proportional amounts of each tank mix ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

Uses

Alfalfa

(Not for use in Mississippi)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply as a broadcast foliar spray using aircraft or ground spray equipment. Use a higher rate in the rate range for increased pest pressure. Use a minimum spray volume of 2 gpa for aerial application (fixed wing or helicopter) or 10 gpa for ground equipment. Use a spray volume of 5 gpa or more by air or up to 20 gpa by ground when foliage is dense and/or pest population is high and/or under high temperature and wind conditions. Some reduction in insect control may occur under unusually cool conditions.

Chemigation: Lorsban Advanced may be applied through sprinkler irrigation systems to control listed foliar pests. Use specified broadcast application rates. See Chemigation Application section for application instructions.

- Do not make a second application of Lorsban Advanced or other product containing chlorpyrifos within 10 days of the first application.
- Do not allow meat or dairy animals to graze in treated areas.

Corn (Field, Sweet, Seed)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

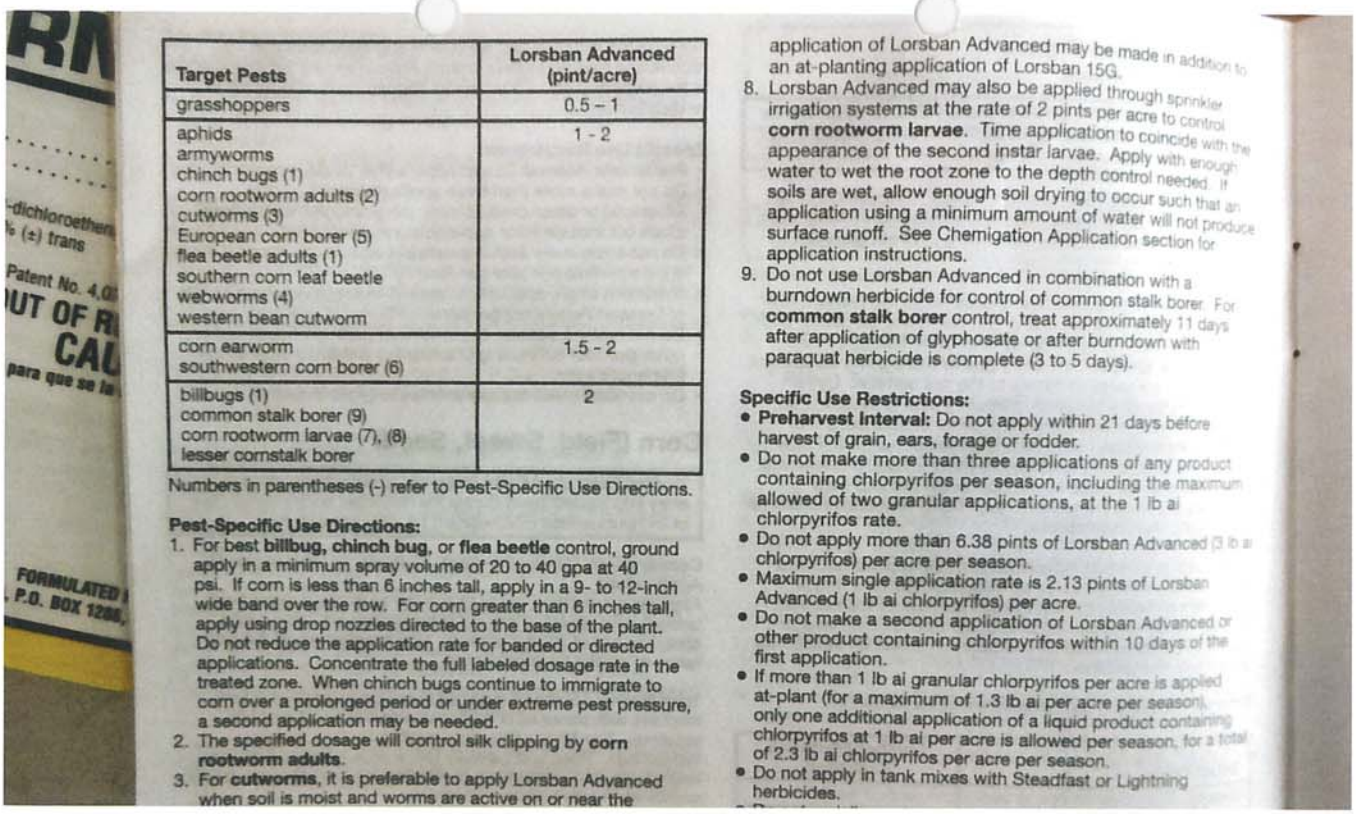
Conservation Tillage: Preplant, At-Plant, or Preemergence Applications
Apply as a broadcast spray to surface trash and exposed soil using power-operated ground spray equipment. Use a total spray volume of 20 gpa or more. Use a higher rate in the rate range to extend residual control.

Tank Mixing: Lorsban Advanced may also be applied in tank mixtures with paraquat or glyphosate and/or liquid fertilizer solutions. See Mixing Directions section for tank mixing instructions. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for each product used in combination with Lorsban Advanced.

Target Pests	Lorsban Advanced (pint/acre)
armyworms cutworms	1 - 2

Postemergence Application
Apply as a postemergence broadcast spray using sufficient spray volume to ensure thorough coverage of treated plants, but no less than 15 gpa for ground spray equipment or 2 to 5 gpa for aircraft equipment. Control may be reduced at low spray volumes under high temperature and wind conditions. Lorsban Advanced may be tank mixed with glyphosate products such as Glyphomax® XRT herbicide or Durango® herbicide when application is to be made to glyphosate-tolerant corn.

Chemigation: Lorsban Advanced may be broadcast applied postemergence through sprinkler irrigation systems at specified application rates to control listed foliar pests. For best results, tank mix Lorsban Advanced with 2 pints of non-emulsifiable oil. See Chemigation Application section for application instructions.



Target Pests	Lorsban Advanced (pint/acre)
grasshoppers	0.5 – 1
aphids armyworms chinch bugs (1) corn rootworm adults (2) cutworms (3) European corn borer (5) flea beetle adults (1) southern corn leaf beetle webworms (4) western bean cutworm	1 - 2
corn earworm southwestern corn borer (6)	1.5 - 2
billbugs (1) common stalk borer (9) corn rootworm larvae (7), (8) lesser cornstalk borer	2

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. For best **billbug, chinch bug**, or **flea beetle** control, ground apply in a minimum spray volume of 20 to 40 gpa at 40 psi. If corn is less than 6 inches tall, apply in a 9- to 12-inch wide band over the row. For corn greater than 6 inches tall, apply using drop nozzles directed to the base of the plant. Do not reduce the application rate for banded or directed applications. Concentrate the full labeled dosage rate in the treated zone. When chinch bugs continue to immigrate to corn over a prolonged period or under extreme pest pressure, a second application may be needed.
2. The specified dosage will control silk clipping by **corn rootworm adults**.
3. For **cutworms**, it is preferable to apply Lorsban Advanced when soil is moist and worms are active on or near the soil surface. If ground is dry, cloddy, or crusted at time of treatment, worms may be protected from the spray and effectiveness will be reduced. Shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment may improve control. A second application may be required if damage or density levels exceed economic thresholds established for your area.
4. For **webworm** control, shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment is necessary.
5. For **European corn borer** control, use 1.5 to 2 pints per acre when application is made with power-operated ground or aerial equipment or 1 to 2 pints per acre when application is made through a sprinkler irrigation system. University research indicates that achieving greater than 50% control of first-generation European borer with a single liquid insecticide treatment is highly dependent upon timing, insecticide placement, and weather conditions.
6. For **southwestern corn borer**, a second application may be applied 21 days later if needed due to reinfestation.
7. For postemergence control of **corn rootworm larvae** apply cultivation. Direct the spray to both sides of the row at the base of the plants just ahead of the cultivator shovels. Cover insecticide with soil around the brace roots. A cultivation application of Lorsban Advanced may be made in addition to an at-planting application of Lorsban 15G.
8. Lorsban Advanced may also be applied through sprinkler irrigation systems at the rate of 2 pints per acre to control **corn rootworm larvae**. Time application to coincide with the appearance of the second instar larvae. Apply with enough water to wet the root zone to the depth control needed. If soils are wet, allow enough soil drying to occur such that an application using a minimum amount of water will not produce surface runoff. See Chemigation Application section for application instructions.
9. Do not use Lorsban Advanced in combination with a burndown herbicide for control of common stalk borer. For **common stalk borer** control, treat approximately 11 days after application of glyphosate or after burndown with paraquat herbicide is complete (3 to 5 days).

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 21 days before harvest of grain, ears, forage or fodder.
- Do not make more than three applications of any product containing chlorpyrifos per season, including the maximum allowed of two granular applications, at the 1 lb ai chlorpyrifos rate.
- Do not apply more than 6.38 pints of Lorsban Advanced (3 lb ai chlorpyrifos) per acre per season.
- Maximum single application rate is 2.13 pints of Lorsban Advanced (1 lb ai chlorpyrifos) per acre.
- Do not make a second application of Lorsban Advanced or other product containing chlorpyrifos within 10 days of the first application.
- If more than 1 lb ai granular chlorpyrifos per acre is applied at-plant (for a maximum of 1.3 lb ai per acre per season), only one additional application of a liquid product containing chlorpyrifos at 1 lb ai per acre is allowed per season, for a total of 2.3 lb ai chlorpyrifos per acre per season.
- Do not apply in tank mixes with Steadfast or Lightning herbicides.
- Do not aerially apply this product in Mississippi.

Cotton

(Not for use in Mississippi)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply as a broadcast foliar spray using aircraft or ground spray equipment (see separate rate table for Arizona and California). Use a higher rate in the rate range when there is increased pest pressure. Use sufficient spray volume to ensure thorough coverage of treated plants, but no less than 10 gpa for ground spray equipment or 2 gpa for aircraft equipment. Increase spray volume when foliage is dense and/or pest population is high and/or under high temperature and wind conditions. Treat when field counts indicate damaging insect populations are developing or present.

Chemigation: Lorsban Advanced may be applied through sprinkler irrigation systems at specified broadcast application rates to control listed foliar pests. See Chemigation Application section for application instructions.

Proper application methods are necessary to ensure thorough spray coverage and correct rate, and minimize off-target drift. Follow Application Guidelines for ground and aerial application and Spray Drift Management recommendations in General Information section of this label.

All States Except Arizona and California

Target Pests	Lorsban Advanced (pint/acre)
cotton fleahopper (1) plant bugs (1) (*Lygus, Mirids*)	0.37 – 1
grasshoppers thrips	0.5 – 1
cotton aphid fall armyworm yellowstriped armyworm	0.5 - 2
spider mites (2)	1
beet armyworm cotton bollworm (3) cutworms pink bollworm salt marsh caterpillar tobacco budworm (3)	1.5 – 2

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. The 0.37 pint per acre rate will not provide a high degree of control but, compared to the 1 pint per acre rate, will minimize the damage from **plant bugs** and **cotton fleahoppers** and allow increased survival and build-up of beneficial insects to aid in the control of **bollworms** infesting cotton.
2. **Spider mites:** When large numbers of eggs are present, scout the treated area in 3 to 5 days. If newly hatched nymphs are present, make a follow-up application of a non-chlorpyrifos product that is effective against mites.
3. **Bollworms** and **budworms:** For best results, it is suggested that fields be scouted twice per week and applications made when worms are 1/4-inch or less in length.

Arizona and California

Target Pests	Lorsban Advanced (pint/acre)
armyworms cotton aphid cotton fleahopper *Lygus* salt marsh caterpillar silverleaf whitefly (1) thrips	1 - 2
boll weevil cotton bollworm (2) cotton leaf perforator (suppression) cutworms pink bollworm spider mites (suppression) tobacco budworm (2)	2

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. **Silverleaf whitefly:** Apply in tank mix combination with the specified rate of a pyrethroid insecticide labeled for control or suppression.
2. **Bollworms** and **budworms:** For best results, it is suggested that fields be scouted twice per week and applications made when worms are 1/4 inch or less in length.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 14 days before harvest.
- Do not make more than three applications of Lorsban Advanced or other product containing chlorpyrifos per crop season.
- Do not apply more than 6 pints of Lorsban Advanced (2.82 lb ai chlorpyrifos) per acre per season.
- Maximum single application rate is 0.94 lb ai chlorpyrifos (2 pints of Lorsban Advanced) per acre.
- Do not make a second application of Lorsban Advanced or other product containing chlorpyrifos within 10 days of the first application.
- Do not allow meat or dairy animals to graze in treated areas.
- Do not feed gin trash or treated forage to meat or dairy animals.

Cranberry

(Not for use in Mississippi)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply as a broadcast foliar spray. Use sufficient spray volume to ensure thorough coverage, but no less than 15 gpa. Except for control of cranberry weevil, treat when field counts indicate damaging insect populations are developing or present.

Chemigation: Lorsban Advanced may be applied through sprinkler irrigation systems to control listed pests. Apply at specified broadcast application rates. See Chemigation Application section for application instructions.

Target Pests	Lorsban Advanced (pint/acre)
brown spanworm cranberry fruitworm cranberry weevil (1) cutworms fireworms sparganothis fruitworms	3

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. For **weevil** control, apply once at flower bud development (late May, early June) and, if weevils are present, once after 100% bloom (early to mid-July).

Specific Use Precautions:

Apply only after the winter flood water has been removed. To avoid pesticide contamination of flood waters, do not apply when bogs are flooded.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 60 days before harvest.

Field photo taken 01-29-16: Rowbands that were placed onto corn on 01-20-16.

Syngenta Hawaii
01-20-16 CK

Workers in field 312-A25 on 01-29-16.

Field sign posted at 3125-A25 on 01-29-16.

Syngenta Hawaii
01-20-16

01-30-16 - Rash on [redacted]

Syngenta Hawaii
01-20-16 AK

01-30-16 - Rash on [redacted]

Syngenta Hawaii
01-20-16

01-30-16 - Rash on [redacted]

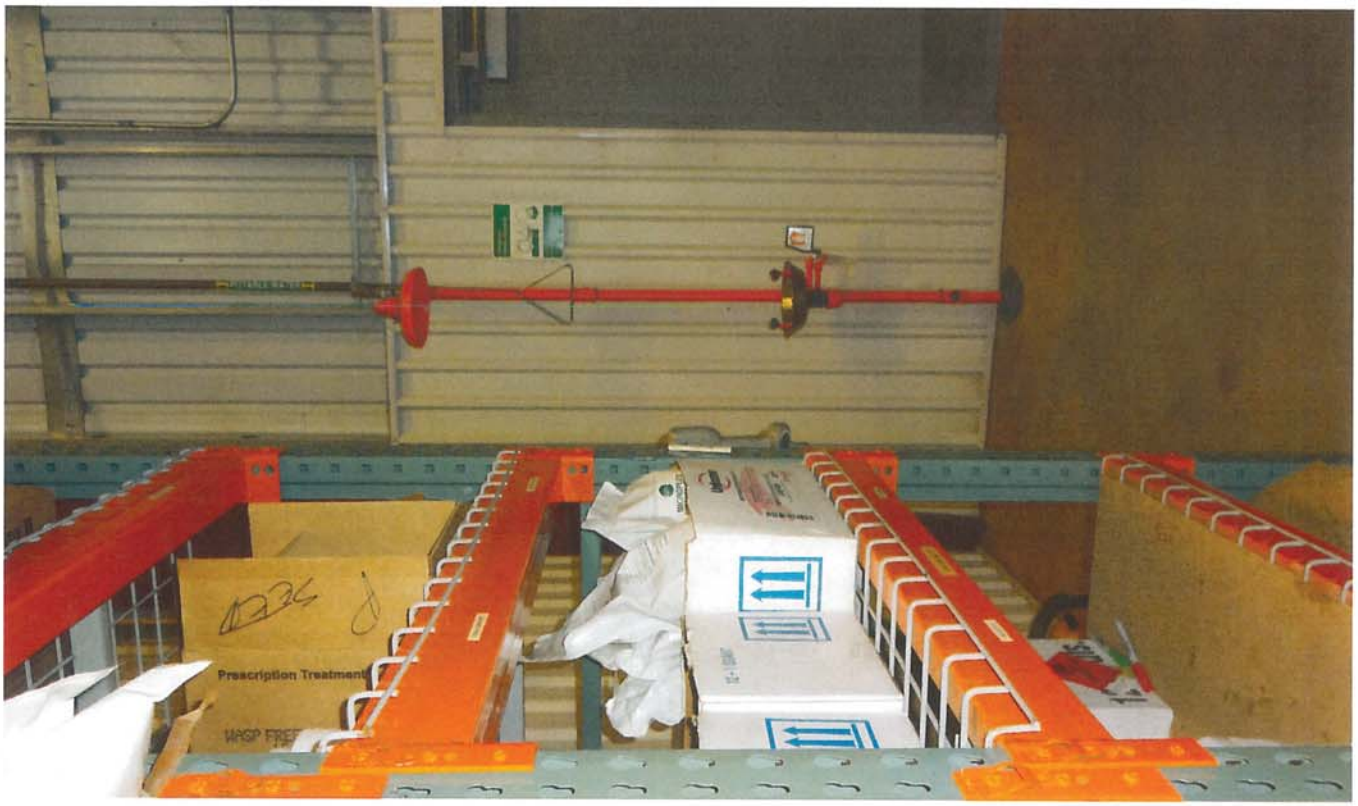
Syngenta Hawaii
01-20-16

01-30-16 - Rash on [redacted]

Syngenta Hawaii
01-20-16 ax

Accessory Building - Pesticide storage behind double door.
#3 shower used on 01-20-16 located in here.

Syngenta Hawaii
01-20-16



Emergency Shower in pestcide storage room
#3 shower used on 01-20-16 for decontamination of field workers.

Syngenta Hawaii
01-20-16

Accessory Buillding. Emergency Shower
#2 shower used on 01-20-16 for decontamination of field workers.

Syngenta Hawaii
01-20-16 CM

Accessory Building. Shower for handlers in locker room.
#1 Shower used for decontamination of field workers on 01-20-16.

Syngenta Hawaii
01-20-16 CN

Nitro Boom sprayer used on 01-19-16.

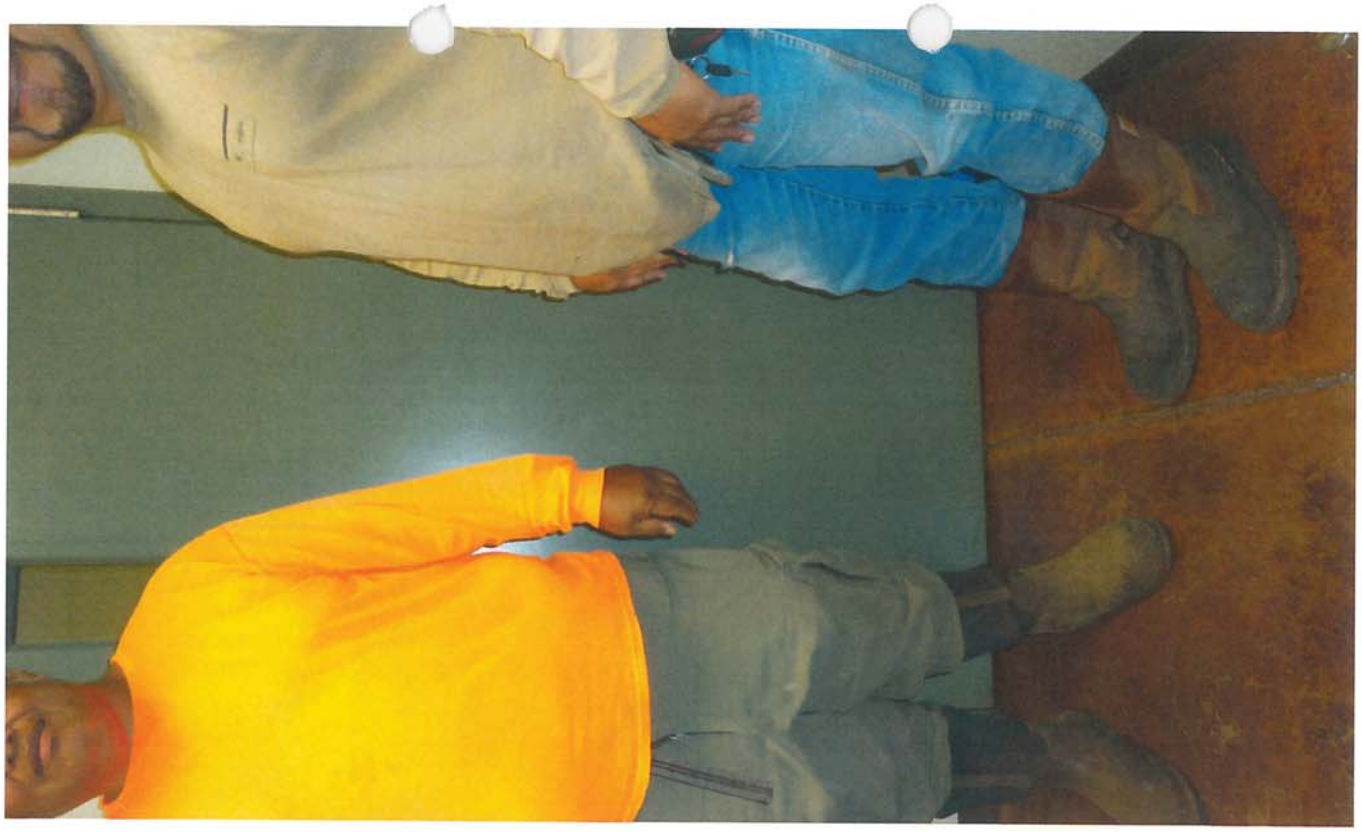
Mixing and loading into sprayer - done at Accessory Building.

Syngenta Hawaii
01-20-16

PPE: chemical resistant apron & gloves,

Face shield.

Syngenta Hawaii
01-20-16 AM



PPE: Long sleeved shirt, long pants, rubber boots.

Syngenta Hawaii
01-20-16

Safety glasses, anemometer.

Syngenta Hawaii
01-20-16 AN

Brandt Indicate 5 label

Syngenta Hawaii
01-20-16 a

January 20, 2016

Clothes washing instructions:

Wash clothes separate form rest of laundry in hot water and soap.

Run washer empty one cycle with hot after complete.

Instrucciones de lavado: Ropa

Lave la ropa por separado del resto de la ropa en agua caliente y jabón.

Lavadora Ejecutar vacía un ciclo con agua caliente después de finalizado.

Provided to A. Kamon 02/03/16

Washing Instructions
Provided to Workers.
Syngenta Hawaii
01/20/16 AK

Washing Instr
to Research
given to wor
Syngenta Ha
1/20/16

Hausam Jeremy USWM

From: Robinson Robin USWM
Sent: Tuesday, February 02, 2016 1:45 PM
To: Hausam Jeremy USWM
Subject: REI Voilations

Jeremy - a list of REI violations. This is my list from memory. Can't think of any others...

312 A ** 12/18/2014 Bird chaser entered the field, REI label had the wrong date on it. Using old label blank, operator said he would write in the correct date but forgot.

312 B ** Two workers looked at the sign and REI label. 12 hour chemistry was sprayed. Everything was correct on the sign and label. Workers got confused between AM and PM

313 B 01 Bird chaser got dropped off mid field, not at the front of the field where the sign is located. Entered active REI field.

312 A 25 1/20/2016 37 workers suspected of being contaminated from early entry of a 24 hour chemistry

Other early entry incidents.

Provided to A. Kamon 02/03/16
By J. Uyehara

Syngenta Hawaii
01/20/16 ak

Dow AgroSciences

Material Safety Data Sheet

Dow AgroSciences LLC

Product Name: LORSBAN* Advanced Insecticide

Issue Date: 05/05/2008
Print Date: 02 Jul 2008

Dow AgroSciences LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. Product and Company Identification

Product Name
LORSBAN* Advanced Insecticide

COMPANY IDENTIFICATION
Dow AgroSciences LLC
A Subsidiary of The Dow Chemical Company
9330 Zionsville Road
Indianapolis, IN 46268-1189
USA

Customer Information Number: 800-992-5994

EMERGENCY TELEPHONE NUMBER
24-Hour Emergency Contact: 800-992-5994
Local Emergency Contact: 800-992-5994

2. Hazards Identification

Emergency Overview
Color: White
Physical State: Liquid
Odor: Mild

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Health Effects
Eye Contact: May cause moderate eye irritation. May cause slight corneal injury.
Skin Contact: Brief contact may cause moderate skin irritation with local redness.
Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts.
Skin Sensitization: Has demonstrated the potential for contact allergy in mice. Has caused allergic skin reactions when tested in mice.
Inhalation: Mist may cause irritation of upper respiratory tract (nose and throat) and lungs. Prolonged excessive exposure to mist may cause serious adverse effects, even death.

Info given to workers + KVMH by Hausam.
Syngenta Hawaii
01/20/16 ak

Ingestion: Moderate toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause serious injury, even death. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. Excessive exposure may produce organophosphate type cholinesterase inhibition.
Effects of Repeated Exposure: For the active ingredient(s): Chlorpyrifos. Excessive exposure may produce organophosphate type cholinesterase inhibition. Signs and symptoms of excessive exposure to active ingredient may be headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, salivation, tearing, tightness in chest, excessive urination, convulsions. In animals, effects have been reported on the following organs: Adrenal gland. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. For the solvent(s): In animals, effects have been reported on the following organs: Kidney. Liver. Blood. For the minor component(s) In animals, effects have been reported on the following organs: Respiratory tract.
Cancer Information: For the minor component(s) Cumene. Has caused cancer in laboratory animals. However, the relevance of this to humans is unknown.
Birth Defects/Developmental Effects: For the active ingredient(s): Chlorpyrifos. Has been toxic to the fetus in lab animals at doses toxic to the mother. For the solvent(s): Has been toxic to the fetus in lab animals at doses toxic to the mother. Has caused birth defects in lab animals only at doses producing severe toxicity in the mother. For the minor component(s): Has been toxic to the fetus in lab animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.
Reproductive Effects: Chlorpyrifos did not interfere with fertility in reproduction studies in laboratory animals. Some evidence of toxicity to the offspring occurred, but only at a dose high enough to produce significant toxicity to the parent animals. For the solvent(s): In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. Reproductive effects seen in female animals are believed to be due to altered nutritional states resulting from extremely high doses of glycerine given in the diet. Similar effects have been seen in animals fed synthetic diets.

3. Composition Information

Component	CAS #	Amount
Chlorpyrifos	2921-88-2	40.2 %
Solvent naphtha (petroleum), light aromatic	64742-95-6	20.0 %
1,2,4-Trimethylbenzene	95-63-6	6.0 %
Glycerol	56-81-5	2.5 %
1,3,5-Trimethylbenzene	108-67-8	1.6 %
Cumene	98-82-8	0.8 %
Xylene	1330-20-7	0.2 %
Balance		28.7 %

4. First-aid measures

Eye Contact: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
Skin Contact: Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.
Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.
Ingestion: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

Info given to workers KWMH by Hans Syngenta Hawaii 01/20/16 AK

Notes to Physician: Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. This material is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration. Attempt seizure control with diazepam 5-10 mg (adults) intravenous over 2-3 minutes. Repeat every 5-10 minutes as needed. Monitor for hypotension, respiratory depression, and need for intubation. Consider second agent if seizures persist after 30 mg. If seizures persist or recur administer phenobarbital 600-1200 mg (adults) intravenous diluted in 60 ml 0.9% saline given at 25-50 mg/minute. Evaluate for hypoxia, dysrhythmia, electrolyte disturbance, hypoglycemia (treat adults with dextrose 100 mg intravenous). Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. Fire Fighting Measures

Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.
Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.
Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is produced when product burns.
Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Sulfur oxides. Phosphorus oxides. Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

6. Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: Contain spilled material if possible. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance.
Personal Precautions: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Info given to workers + KWMH by Hawson
Syngenta Hawaii
01/20/16 ak

7. Handling and Storage

Handling

General Handling: Keep out of reach of children. Do not swallow. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions: Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Storage

Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

8. Exposure Controls / Personal Protection

Exposure Limits

Component	List	Type	Value
Chlorpyrifos	ACGIH	TWA Inhalable fraction and vapor.	0.1 mg/m3 SKIN, BEI
1,3,5-Trimethylbenzene	ACGIH	TWA	25 ppm
1,2,4-Trimethylbenzene	ACGIH	TWA	25 ppm
Glycerol	ACGIH	TWA Mist.	10 mg/m3
	OSHA Table Z-1	PEL Respirable fraction.	5 mg/m3
	OSHA Table Z-1	PEL Total dust.	15 mg/m3
	TX ESL	ST ESL Respirable.	50 ug/m31 hour
	TX ESL	AN ESL Respirable.	5 ug/m3
Cumene	ACGIH	TWA	50 ppm
	OSHA Table Z-1	PEL	245 mg/m3 50 ppm SKIN
Xylene	ACGIH	TWA	100 ppm BEI
	ACGIH	STEL	150 ppm BEI
	OSHA Table Z-1	PEL	435 mg/m3 100 ppm

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

A "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapors or by direct skin contact.

It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

A BEI notation following the exposure guideline refers to a guidance value for assessing biological monitoring results as an indicator of the uptake of a substance from all routes of exposures.

Personal Protection

Eye/Face Protection: Use chemical goggles.

Info given to workers + KWMH by Hawsun. Syngenta Hawaii 01/20/16 AK

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

Engineering Controls

Ventilation: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

9. Physical and Chemical Properties

Physical State	Liquid
Color	White
Odor	Mild
Flash Point - Closed Cup	> 100 °C (> 212 °F) *Pensky-Martens Closed Cup ASTM D 93*
Flammable Limits In Air	**Lower**: No test data available **Upper**: No test data available
Autoignition Temperature	No test data available
Vapor Pressure	
Boiling Point (760 mmHg)	No test data available.
Vapor Density (air = 1)	No test data available
Specific Gravity (H2O = 1)	No test data available
Liquid Density	1.12 g/cm3 @ 20 °C *Calculated*
Freezing Point	No test data available
Melting Point	No test data available
Solubility in Water (by weight)	No test data available
pH	4.4 (@ 1 %) *pH Electrode*

10. Stability and Reactivity

Stability/Instability

Stable under recommended storage conditions. See Storage, Section 7.

Conditions to Avoid: Active ingredient decomposes at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

Info given to workers + KA/MH by Dawson Syngenta Hawaii 01/20/16 AM

Incompatible Materials: Avoid contact with: Acids. Oxidizers. Reducing agents.

Hazardous Polymerization
Will not occur.

Thermal Decomposition
Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Hydrogen chloride. Nitrogen oxides. Phosphorus oxides. Sulfur oxides. Toxic gases are released during decomposition.

11. Toxicological Information

Acute Toxicity
Ingestion
LD50, Rat, female 494.7 mg/kg
Skin Absorption
LD50, Rat, male and female > 5,000 mg/kg
Inhalation
Maximum attainable concentration. LC50, 4 h, Aerosol, Rat, male and female > 0.48 mg/l

Sensitization
Skin
Has demonstrated the potential for contact allergy in mice. Has caused allergic skin reactions when tested in mice.

Repeated Dose Toxicity
For the active ingredient(s): Chlorpyrifos. Excessive exposure may produce organophosphate type cholinesterase inhibition. Signs and symptoms of excessive exposure to active ingredient may be headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, salivation, tearing, tightness in chest, excessive urination, convulsions. In animals, effects have been reported on the following organs: Adrenal gland. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. For the solvent(s): In animals, effects have been reported on the following organs: Kidney. Liver. Blood. For the minor component(s) In animals, effects have been reported on the following organs: Respiratory tract.

Chronic Toxicity and Carcinogenicity
Active ingredient did not cause cancer in laboratory animals. For the minor component(s) Cumene. Has caused cancer in laboratory animals. However, the relevance of this to humans is unknown. For the minor component(s): Xylene was not found to be carcinogenic in a National Toxicology Program bioassay in rats and mice.

Developmental Toxicity
For the active ingredient(s): Chlorpyrifos. Has been toxic to the fetus in lab animals at doses toxic to the mother. For the active ingredient(s): Chlorpyrifos. Did not cause birth defects in laboratory animals. For the solvent(s): Has been toxic to the fetus in lab animals at doses toxic to the mother. Has caused birth defects in lab animals only at doses producing severe toxicity in the mother. For the minor component(s): Has been toxic to the fetus in lab animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

Reproductive Toxicity
Chlorpyrifos did not interfere with fertility in reproduction studies in laboratory animals. Some evidence of toxicity to the offspring occurred, but only at a dose high enough to produce significant toxicity to the parent animals. For the solvent(s): In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. Reproductive effects seen in female animals are believed to be due to altered nutritional states resulting from extremely high doses of glycerine given in the diet. Similar effects have been seen in animals fed synthetic diets.

Genetic Toxicology
For the active ingredient(s): Chlorpyrifos. No relevant information found. For the component(s) tested: In vitro genetic toxicity studies were negative. For the active ingredient(s): Chlorpyrifos. Based on a majority of negative data and some equivocal or marginally positive results, active ingredient is considered to have minimal genetic toxicity potential. For the component(s) tested: Animal genetic toxicity studies were negative.

Info given to workers + Kurmet Hansam. Syngenta Hawaii 01/20/16 ak

12. Ecological Information

ENVIRONMENTAL FATE

Data for Component: **Chlorpyrifos**

Movement & Partitioning

Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Expected to be relatively immobile in soil (Koc > 5000).

Henry's Law Constant (H): 6.6E-6 atm*m3/mole Measured

Partition coefficient, n-octanol/water (log Pow): 4.96 Measured

Partition coefficient, soil organic carbon/water (Koc): 1,259 - 12,589 Measured

Bioconcentration Factor (BCF): 180; invertebrate; Measured
100 - 1,673; fish; Measured

Persistence and Degradability

Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD < 2.5%).

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
91.6678E-12 cm3/s	1.4 h	Estimated

Stability in Water (1/2-life):
7 - 14 d

Biological oxygen demand (BOD):

BOD 5	BOD 10	BOD 20	BOD 28
0 %			

Data for Component: **Solvent naphtha (petroleum), light aromatic**

Movement & Partitioning

For the major component(s): Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000). For the minor component(s): Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Persistence and Degradability

For the major component(s): Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%). For some component(s): Biodegradation under aerobic static laboratory conditions is low (BOD20 or BOD28/ThOD between 2.5 and 10%).

Data for Component: **1,2,4-Trimethylbenzene**

Movement & Partitioning

Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000).

Henry's Law Constant (H): 6.16E-03 atm*m3/mole; 25 °C Measured

Partition coefficient, n-octanol/water (log Pow): 3.63 Measured

Partition coefficient, soil organic carbon/water (Koc): 720 Estimated

Bioconcentration Factor (BCF): 33 - 275; common carp (Cyprinus carpio); Measured

Persistence and Degradability

Material is expected to biodegrade only very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
16.70E-12 cm3/s	0.641 d	Estimated

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method
4 - 18 %	28 d	OECD 301C Test

Theoretical Oxygen Demand: 3.19 mg/mg

Info given to workers + KV/MH by Hawsun.

Syngenta Hawa 01/20/16 ai

Data for Component: **Glycerol**

Movement & Partitioning

Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Potential for mobility in soil is very high (Koc between 0 and 50). Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Henry's Law Constant (H): 1.73E-8 atm*m3/mole; 25 °C Measured

Partition coefficient, n-octanol/water (log Pow): -1.76 Measured

Partition coefficient, soil organic carbon/water (Koc): 1 Estimated

Persistence and Degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method
63 %	14 d	OECD 301C Test

Theoretical Oxygen Demand: 1.22 mg/mg

Data for Component: **1,3,5-Trimethylbenzene**

Movement & Partitioning

Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000).

Henry's Law Constant (H): 1.97E-2 atm*m3/mole; 25 °C Estimated

Partition coefficient, n-octanol/water (log Pow): 3.42 Measured

Partition coefficient, soil organic carbon/water (Koc): 700 Estimated

Bioconcentration Factor (BCF): 23 - 342; fish; Measured

Persistence and Degradability

Material is not readily biodegradable according to OECD/EC guidelines. Biodegradation rate may increase in soil and/or water with acclimation.

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
3.51E-11 cm3/s	3.7 h	Estimated

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method
0 %	28 d	OECD 301C Test

Biological oxygen demand (BOD):

BOD 5	BOD 10	BOD 20	BOD 28
3.1 %			

Theoretical Oxygen Demand: 3.19 mg/mg

Data for Component: **Cumene**

Movement & Partitioning

Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Potential for mobility in soil is low (Koc between 500 and 2000).

Henry's Law Constant (H): 1.15E-2 atm*m3/mole; 25 °C Measured

Partition coefficient, n-octanol/water (log Pow): 3.4 - 3.7 Measured

Partition coefficient, soil organic carbon/water (Koc): 800 - 2,800 Estimated

Bioconcentration Factor (BCF): 35.5; fish; Measured

Persistence and Degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
6.90E-12 cm3/s	1.55 d	Estimated

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method
86 %	28 d	OECD 301D Test

Biological oxygen demand (BOD):

BOD 5	BOD 10	BOD 20	BOD 28
37 %	44 %	48 %	

Theoretical Oxygen Demand: 3.20 mg/mg

Info given to workers + KVMH by Hansam - Syngenta Hawaii on 2/20/16 ak

Data for Component: **Xylene**

Movement & Partitioning

Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Potential for mobility in soil is medium (Koc between 150 and 500).

Henry's Law Constant (H): 7.45E-3 atm*m3/mole; 25 °C Estimated

Partition coefficient, n-octanol/water (log Pow): 3.12 Measured

Partition coefficient, soil organic carbon/water (Koc): 443 Estimated

Bioconcentration Factor (BCF): 15 - 21; fish; Measured

Persistence and Degradability

Material is expected to be readily biodegradable.

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
6.5E-12 cm3/s	19.7 h	Estimated

Biological oxygen demand (BOD):

BOD 5	BOD 10	BOD 20	BOD 28
37 %	58 %	72 %	

Theoretical Oxygen Demand: 3.17 mg/mg

ECOTOXICITY

Data for Component: **Chlorpyrifos**

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in most sensitive species). Material is highly toxic to birds on a dietary basis (LC50 between 50 and 500 ppm). Material is moderately toxic to birds on an acute basis (LD50 between 51 and 500 mg/kg).

Fish Acute & Prolonged Toxicity

LC50, bluegill (Lepomis macrochirus): 0.0017 - 0.0042 mg/l

LC50, rainbow trout (Oncorhynchus mykiss), 96 h: 0.0030 - 0.0085 mg/l

LC50, fathead minnow (Pimephales promelas), static, 96 h: 0.1 mg/l

Aquatic Invertebrate Acute Toxicity

EC50, water flea Daphnia magna, 48 h: 0.00068 mg/l

Aquatic Plant Toxicity

EC50, alga Scenedesmus sp., biomass growth inhibition, 96 h: 0.48 mg/l

EC50, diatom Skeletonema costatum, Growth inhibition (cell density reduction), 96 h: 0.255 - 0.328 mg/l

Toxicity to Micro-organisms

EC50; activated sludge, respiration inhibition: > 100 mg/l

Toxicity to Non-mammalian Terrestrial Species

dietary LC50, bobwhite (Colinus virginianus): 423 ppm

dietary LC50, mallard (Anas platyrhynchos): 591 ppm

oral LD50, Honey bee (Apis mellifera): 0.36 micrograms/bee

contact LD50, Honey bee (Apis mellifera): 0.07 micrograms/bee

Toxicity to Soil Dwelling Organisms

LC50, Earthworm Eisenia foetida, adult, 14 d: 0.214 mg/kg

Data for Component: **Solvent naphtha (petroleum), light aromatic**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

Fish Acute & Prolonged Toxicity

LC50, rainbow trout (Oncorhynchus mykiss), 96 h: 9.22 mg/l

Aquatic Invertebrate Acute Toxicity

LC50, saltwater mysid Mysidopsis bahia, 96 h: 2.0 mg/l

Toxicity to Non-mammalian Terrestrial Species

dietary LC50, bobwhite (Colinus virginianus): > 6,500 ppm

oral LD50, bobwhite (Colinus virginianus): > 2,250 mg/kg

Data for Component: **1,2,4-Trimethylbenzene**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

Info given to workers + KVMH By Haosam Syngenta Han 01/20/16

Fish Acute & Prolonged Toxicity
LC50, fathead minnow (Pimephales promelas), flow-through, 96 h: 7.7 mg/l
LC50, rainbow trout (Oncorhynchus mykiss), static, 24 h: 5 mg/l
Aquatic Invertebrate Acute Toxicity
EC50, water flea Daphnia magna, 48 h: 3.6 mg/l
LC50, grass shrimp (Palaemonetes pugio), 96 h, survival: 5.4 mg/l

Data for Component: **Glycerol**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity
LC50, fathead minnow (Pimephales promelas), static, 96 h: 44,000 mg/l
Aquatic Invertebrate Acute Toxicity
LC50, water flea Daphnia magna, 24 h: > 10,000 mg/l
Toxicity to Micro-organisms
EC50, OECD 209 Test; activated sludge, respiration inhibition, 3 h: > 1,000 mg/l

Data for Component: **1,3,5-Trimethylbenzene**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

Fish Acute & Prolonged Toxicity
LC50, Japanese medaka (Oryzias latipes): 8.6 mg/l
LC50, goldfish (Carassius auratus), flow-through, 96 h: 12.52 mg/l
Aquatic Invertebrate Acute Toxicity
LC50, water flea Daphnia magna: 50 mg/l
EC50, water flea Daphnia magna, static, 24 h, immobilization: 50 mg/l
Aquatic Plant Toxicity
EC50, alga Scenedesmus sp., biomass growth inhibition, 48 h: 25 mg/l

Data for Component: **Cumene**

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).
Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in most sensitive species).

Fish Acute & Prolonged Toxicity
LC50, rainbow trout (Oncorhynchus mykiss), 96 h: 3.6 mg/l
Aquatic Invertebrate Acute Toxicity
EC50, water flea Daphnia magna, 48 h, immobilization: 4.0 mg/l
LC50, water flea Daphnia magna, 48 h: 0.6 mg/l
Aquatic Plant Toxicity
EC50, green alga Selenastrum capricornutum, biomass growth inhibition: 2.6 mg/l
Toxicity to Non-mammalian Terrestrial Species
oral LD50, redwing blackbird (Agelaius phoeniceus): > 98 mg/kg

Data for Component: **Xylene**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

Fish Acute & Prolonged Toxicity
LC50, rainbow trout (Oncorhynchus mykiss), 96 h: 9.2 mg/l
Aquatic Invertebrate Acute Toxicity
LC50, water flea Daphnia magna, 48 h: 14.3 mg/l
Aquatic Plant Toxicity
EC50, green alga Selenastrum capricornutum, biomass growth inhibition, 72 h: 3.2 - 4.9 mg/l

13. Disposal Considerations

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s)

Info given to workers + KVMH by Hausum
Syngenta Hawaii
01/20/16 ak

or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. Transport Information

DOT Non-Bulk
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name: CHLORPYRIFOS
Hazard Class: 9 **ID Number:** UN3082 **Packing Group:** PG III

DOT Bulk
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name: CHLORPYRIFOS
Hazard Class: 9 **ID Number:** UN3082 **Packing Group:** PG III

IMDG
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name: CHLORPYRIFOS
Hazard Class: 9 **ID Number:** UN3082 **Packing Group:** PG III
EMS Number: F-A,S-F
Marine pollutant.: Yes

ICAO/IATA
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name: CHLORPYRIFOS
Hazard Class: 9 **ID Number:** UN3082 **Packing Group:** PG III
Cargo Packing Instruction: 914
Passenger Packing Instruction: 914

Additional Information

Reportable quantity: 2 lb – CHLORPYRIFOS

MARINE POLLUTANT (CHLORPYRIFOS)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	Yes
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Info given to workers + KVMPT & Hausam. Syngenta Hawaii 01/20/16 AK

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

Component	CAS #	Amount
1,2,4-Trimethylbenzene	95-63-6	6.0%

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:
The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Component	CAS #	Amount
Chlorpyrifos	2921-88-2	49.6%
1,2,4-Trimethylbenzene	95-63-6	6.0%
Glycerol	56-81-5	2.5%
1,3,5-Trimethylbenzene	108-67-8	1.6%
Cumene	98-82-8	0.5%

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103
This product contains the following substances which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

Component	CAS #	Amount
Chlorpyrifos	2921-88-2	49.6%
Cumene	98-82-8	0.5%
Xylene	1330-20-7	0.2%

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Toxic Substances Control Act (TSCA)
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30
CEPA - Domestic Substances List (DSL)

16. Other Information

Hazard Rating System

NFPA	Health	Fire	Reactivity
	3	2	0

Revision
Identification Number: 1012483 / 1016 / Issue Date 05/05/2008 / Version: 2.0
DAS Code: GF-2153
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Info given to workers + KVMA!
Hansam
Syngenta Hawaii
01/2011 GAK

Legend

N/A	Not available
W/W	Weight/Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
DOW IHG	Dow Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation
Action Level	A value set by OSHA that is lower than the PEL which will trigger the need for activities such as exposure monitoring and medical surveillance if exceeded.

Dow AgroSciences LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

Info given to Workers + KVMH
Hansom
Syngenta Hawaii
01/20/16 AM

MATERIAL SAFETY DATA SHEET

PERMETHRIN

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

Loveland Products, Inc.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-800-301-7976
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: PERMETHRIN
CHEMICAL NAME: Permethrin: (3-Phenoxyphenyl) methyl (±) cis-trans-3- (2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate*
CHEMICAL FAMILY: Pyrethroid Insecticide
EPA REG. NO.: 34704-873
MSDS Number: 000873-05-LPI **MSDS Revisions:** New **Date Of Issue:** 03/11/05 **Supersedes:** New

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION - AVISO – Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detaile (If you do not understand the label, find someone to explain it to you in detail.) Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

This product is amber liquid with an aromatic solvent odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Permethrin	38.40	52645-53-1	not listed
Inert ingredients, including:	61.60		
Aromatic Hydrocarbons		64742-95-6	not listed

4. FIRST AID MEASURES

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, the give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary damages by aspiration of the solvent.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-800-301-7976.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): 108°F/42.2°C (CC)
FLAMMABLE LIMITS (LFL & UFL): None established
EXTINGUISHING MEDIA: Foam, CO_2, or dry chemical. Soft stream water fog only if necessary.
HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and/or carbon dioxide. Chlorine and hydrogen chloride may be formed.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel downwind and out of area.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire and cool the containers, contain run-off by diking to prevent contamination of water supplies. Containers in fire may burst or explode from excessive heat. Vapors may travel a considerable distance to source of ignition and flash back along vapor trail.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

For small spills, absorb with an absorbent material such as pet litter. Sweep up and transfer to containers for possible land application according to label use or for proper disposal. Wash the spill with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container and handle in an approved manner. Check local, state and federal regulations for proper disposal. Flush the area with water to remove any residue. For large spills: contain liquid by diking the area, keep product out of water supplies. Large spills that soak into ground should be dug up to a depth of 1 to 2 inches, placed in drums and disposed of in accordance with instructions provide under DISPOSAL, section 13 of this MSDS. Any recovered spilled liquid should be similarly collected and disposed of.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Info given to workers by Hansen. + KVMH are

Syngenta Hawaii 01/20/16 ak

7. HANDLING AND STORAGE

HANDLING: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Do not store below 10°F/-12.2°C. Do not use or store near heat or open flame. Keep out of reach of children and animals. Store in original containers only. Store in a cool dry place and avoid excessive heat. Carefully open containers. After partial use, replace lids and close tightly. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required.

RESPIRATORY PROTECTION: Not normally required; if vapors or mists become excessive, wear a NIOSH approved pesticide respirator with cartridges for pesticide vapors.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes plus socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Xylene (mixed isomers)	435 mg/m^3	434 mg/m^3
Ethyl benzene	435 mg/m^3	434 mg/m^3
Trimethylbenzene	not listed	123 mg/m^3
Cumene	245 mg/m^3 (Skin)	246 mg/m^3

Personal Protective Equipment (PPE): Applicators and other handlers must wear: long sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate or Viton®, and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Amber liquid with an aromatic solvent odor.
SPECIFIC GRAVITY (Water = 1): 1.002 g/ml
VAPOR PRESSURE: Not applicable
PERCENT VOLATILE (by volume): Not applicable
BULK DENSITY: 8.36 lbs/gal.
BOILING POINT: Not established
EVAPORATION RATE: Not applicable
SOLUBILITY: Emulsifiable
pH: 5.0-5.6 (1% solution)

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Excessive heat and fire.
INCOMPATIBILITY: Not established.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and/or carbon dioxide, chlorine and hydrogen chloride may be formed in a fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD_{50} (rat): 1,030 mg/kg
Eye Irritation (rabbit): Moderate eye irritant
Inhalation LC_{50} (rat): 25.7 mg/L (4 hr).
Acute Dermal LD_{50} (rabbit): >2000 mg/kg
Skin Irritation (rabbit): Not established
Skin Sensitization (guinea pig): Not established.
Carcinogenic Potential: Ethyl benzene is listed as a Class 2B carcinogen (limited evidence for carcinogenicity in humans) by the International Agency for Research on Cancer (IARC). Ethyl benzene was found to be possibly carcinogenic to humans by NTP. Not listed by OSHA or ACGIH.

12. ECOLOGICAL INFORMATION

This pesticide is extremely toxic to fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water by cleaning equipment or disposal of wastes. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops if bees are visiting the treatment area.

13. DISPOSAL CONSIDERATIONS

Metal containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local regulations. Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to http://www.acrecycle.org/ for locations) or by reconditioning, or dispose of in a sanitary landfill, or, incineration, or, if allowed by state and local regulations, by burning. If burned, stay out of smoke. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law.

Info given to workers by Hausam. + KVM arc

Syngenta Hawaii 01/20/16 arc

MATERIAL SAFETY DATA SHEET

14. TRANSPORT INFORMATION

DOT Shipping Description: LESS THAN 119 GALLONS NOT REGULATED BY USDOT FOR SURFACE (GROUND) TRANSPORTATION.
U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120; CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes. Packaging and classification for these modes of transportation are more stringent.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA			HMIS	
2	Health	0 Least	2	Health
2	Flammability	1 Slight	2	Flammability
1	Instability	2 Moderate	1	Reactivity
		3 High	H	PPE
		4 Severe		

SARA Hazard Notification/Reporting SARA Title III Hazard Category:

Immediate	Y	Fire	Y	Sudden Release of Pressure	N
Delayed	Y	Reactive	N		

Reportable Quantity (RQ) under U.S. CERCLA: Xylene (mixed isomers) (CAS: 1330-20-7) 100 pounds; Cumene (CAS: 98-82-8) 5000 pounds; Ethylbenzene (CAS: 100-41-1) 1000 pounds
SARA, Title III, Section 313: Permethrin (CAS: 52645-53-1) 38.40%; 1,2-4 Trimethylbenzene (CAS: 95-63-6): <17.0%; Xylene (mixed isomers) (CAS: 1330-20-7) < 2.0%; Cumene (CAS: 98-82-8) < 1.0%; Ethylbenzene (CAS: 100-41-1) <1.0%
RCRA Waste Code: Not listed.
CA Proposition 65: Not listed.

16. OTHER INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

®Viton is a registered trademark of DUPONT DOW ELASTOMERS L.L.C.

This product is a Restricted Use Pesticide (Toxic to Fish and Aquatic Organisms)

U.S. Patent No. 4,024,163

**cis/trans ratio: Max. 55% (±) cis and min. 45% trans*

Info given to workers & KVMH by Hansen Syngenta Hawaii 01/20/16 arc

000087

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Room
Syngenta Hawaii
01/20/16at

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Abigania, Louis	PSN0001488	Operation Services	3rd Party Contractor Personnel		Enrolled
Akeang, Baloanna	PSN0001490	Operation Services	3rd Party Contractor Personnel	1/27/14	Enrolled
Al Mustafa, Mohamid	PSN0001663	Operation Services	3rd Party Contractor Personnel	OK -> Quiz	Enrolled
Alicante, Leonora	PSN0001004	Operation Services	Syngenta Personnel		Enrolled
Alvarado, Sofronio	PSN0001005	Operation Services	Syngenta Personnel		Enrolled
Amansec, Wilfredo	PSN0001007	Operation Services	Syngenta Personnel	1/27/14	Enrolled
Amulacion, Shantel	PSN0001502	Operation Services	3rd Party Contractor Personnel		Enrolled
Angala, Arsenio	PSN0001489	Operation Services	3rd Party Contractor Personnel		Enrolled
Apilado, Faustino	PSN0001617	Operation Services	3rd Party Contractor Personnel		Enrolled
Apilado, Patrick	PSN0001256	Operation Services	3rd Party Contractor Personnel		Enrolled
Apilado, Sheri	PSN0001436	Operation Services	3rd Party Contractor Personnel	1/24/14	Enrolled
Arellano, Dionisia	PSN0001009	Operation Services	Syngenta Personnel		Enrolled
Arementa Leyva, Manuel	PSN0001667	Operation Services	3rd Party Contractor Personnel		Enrolled
Bacon, Barbara	PSN0001668	Operation Services	3rd Party Contractor Personnel		Enrolled

000088

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Record
Syngenta Hawaii
01/20/10

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Balauro, Janice	PSN0001015	Operation Services	Syngenta Personnel	Janice Balauro	Enrolled
[redacted]					
Balisican, Ricarte	PSN0001018	Operation Services	Syngenta Personnel	Ricarte Balisican	Enrolled
Baxtar, Russel	PSN0001670	Operation Services	3rd Party Contractor Personnel	[illegible]	Enrolled
Beniamina, Roxanne	PSN0001445	Operation Services	3rd Party Contractor Personnel	Roxanne Beniamina	Enrolled
Bermoy, Micah	PSN0001601	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Bernabe, Billy	PSN0001558	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Brevitz, Michelle	PSN0001025	Operation Services	Syngenta Personnel	[illegible]	Enrolled
Brun, Arthur	PSN0001027	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Buenaventura Lugo Lugo, Jose	PSN0001671	Operation Services	3rd Party Contractor Personnel	Jose B. Lugo	Enrolled
Bumanglag, Vicky	PSN0001479	Operation Services	3rd Party Contractor Personnel	Victoria Bumanglag	Enrolled
Butac, Marcelo	PSN0001029	Operation Services	Syngenta Personnel	Marcelo Butac	Enrolled
Caberto, Eduardo	PSN0001031	Operation Services	Syngenta Personnel	Eduardo Caberto	Enrolled
Calderon, Javier	PSN0001649	Operation Services	3rd Party Contractor Personnel	Javier Calderon	Enrolled

000089

SYNGENTA

Class Roster / Sign-In Sheet

WPS training Recv
Syngenta Hawaii
01/20/16 ac

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Camat, Ariel	PSN0001034	Operation Services	Syngenta Personnel	Ariel Camat	Enrolled
Cano, Sergio	PSN0001430	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Caoagdan, Carmelita	PSN0001403	Operation Services	3rd Party Contractor Personnel	C Caoagdan	Enrolled
Capristo, Alejandro	PSN0001643	Operation Services	3rd Party Contractor Personnel	Alejandro Capristo	Enrolled
Capristo, Daniel	PSN0001642	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Caranto, Mariano	PSN0001469	Operation Services	3rd Party Contractor Personnel	Mariano Caranto	Enrolled
Carineo, Ricky	PSN0001673	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Carvalho, Noah	PSN0001674	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Carveiro, Bessie	PSN0001264	Operation Services	3rd Party Contractor Personnel	1/31/14	Enrolled
Castillo Rodriguez, Rafael	PSN0001689	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Castro, Andrea	PSN0001039	Operation Services	3rd Party Contractor Personnel	Andrea Castro	Enrolled
Celestino, Bayani	PSN0001555	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Cervantes, Edgardo	PSN0001654	Operation Services	3rd Party Contractor Personnel	Edgardo Cervantes	Enrolled
Cline, Sundee	PSN0001040	Operation Services	Syngenta Personnel	[redacted]	Enrolled

000090

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Records
Syngenta Hawaii
01/20/14

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Constantino, Jossie	PSN0001589	Operation Services	3rd Party Contractor Personnel		Enrolled
Cortez, Tomas	PSN0001644	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Damasco, Elvie	PSN0001268	Operation Services	3rd Party Contractor Personnel	1/29/14	Enrolled
Dean, Levi	PSN0001675	Operation Services	3rd Party Contractor Personnel		Enrolled
Dejesus Senda, Jonatan	PSN0001676	Operation Services	3rd Party Contractor Personnel	1-27-14	Enrolled
Dela Cruz, Caleb	PSN0001435	Operation Services	3rd Party Contractor Personnel	1-31-14	Enrolled
Dela Cruz, Krista	PSN0001624	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Diaz, Filberto	PSN0001677	Operation Services	3rd Party Contractor Personnel		Enrolled
Domingo, Guido	PSN0001046	Operation Services	Syngenta Personnel		Enrolled
Domingo, Jaime	PSN0001602	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Domingo, Narciso	PSN0001604	Operation Services	3rd Party Contractor Personnel	01-27-14	Enrolled
Dumapit, Hannah	PSN0001377	Operation Services	3rd Party Contractor Personnel	1-24-14	Enrolled
Enriquez, Jose	PSN0001647	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Fernandez, Gerardo	PSN0001645	Operation Services	3rd Party Contractor Personnel		Enrolled

000091

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Class
Syngenta Hawaii
01/20/16 AM

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Fernandez, Joshua	PSN0001590	Operation Services	3rd Party Contractor Personnel	1/29/14	Enrolled
Fernandez, Osvaldo	PSN0001646	Operation Services	3rd Party Contractor Personnel		Enrolled
Fontanilla, Marcy	PSN0001621	Operation Services	3rd Party Contractor Personnel	1/27	Enrolled
Fu, Samuel	PSN0001365	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Furtado, Stanley	PSN0001658	Operation Services	3rd Party Contractor Personnel	1/29	Enrolled
Garcia, Alejandro	PSN0001431	Operation Services	3rd Party Contractor Personnel		Enrolled
Garcia, Marco	PSN0001662	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Goha, Mapiyid	PSN0001648	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Gutierrez, Gail	PSN0001064	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Hamm, Gloria	PSN0001066	Operation Services	Syngenta Personnel		Enrolled
Harris, Anthony	PSN0001678	Operation Services	3rd Party Contractor Personnel		Enrolled
Haumea, Carmelita	PSN0001067	Operation Services	Syngenta Personnel		Enrolled
Igne, Sandon	PSN0001074	Operation Services	Syngenta Personnel		Enrolled
Jamorabon, Lolita	PSN0001076	Operation Services	Syngenta Personnel	[redacted]	Enrolled

000092

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Kauai Syngenta Hawaii 01/24/2014

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Jenkins, Tyrone	PSN0001634	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
[redacted]					
Jimenez, Gildardo	PSN0001635	Operation Services	3rd Party Contractor Personnel	Gildardo Jimenez	Enrolled
John, Mikeson	PSN0001434	Operation Services	3rd Party Contractor Personnel		Enrolled
Josue, Dean	PSN0001588	Operation Services	3rd Party Contractor Personnel		Enrolled
Kamakea, Jordan	PSN0001584	Operation Services	3rd Party Contractor Personnel	1/24/14	Enrolled
Kamala, William	PSN0001511	Operation Services	3rd Party Contractor Personnel		Enrolled
Kanahele Jr., Joseph	PSN0001449	Operation Services	3rd Party Contractor Personnel	Joseph Kanahele Jr	Enrolled
Kanahele, Ala	PSN0001608	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Kanahele, Dean	PSN0001083	Operation Services	Syngenta Personnel	Dean K Kanahele	Enrolled
Kanahele, Destiny	PSN0001593	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Kanahele, Dillon	PSN0001287	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Kanahele, Jacey	PSN0001362	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
✓ Kanahele, Jerry	PSN0001084	Operation Services	Syngenta Personnel	J. Kanahele	Enrolled

000093

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Round
Syngenta Hawaii
01/20/14AM

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Kanehele Sr., Joseph	PSN0001598	Operation Services	3rd Party Contractor Personnel	Joseph A Kanahele Sr	Enrolled
Kaohelaulii, Dana	PSN0001344	Operation Services	Syngenta Personnel	Dana Kaohelaulii	Enrolled
Kaohelaulii, Peggy	PSN0001629	Operation Services	3rd Party Contractor Personnel	Peggy Kaohelaulii	Enrolled
Kaohi Jr., Francis	PSN0001085	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Kauwe, Kingston	PSN0001561	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Keala-Stapp, Moani	PSN0001585	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Kealoha, Davlynn	PSN0001659	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Kinney, Kaimanu	PSN0001417	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Kocher, Michael	PSN0001450	Operation Services	3rd Party Contractor Personnel	Mike Kocher 1-27-14	Enrolled
Kua, Stanette	PSN0001631	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
[redacted]					
[redacted]					
Lerma, Galen	PSN0001599	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Ligsay, Hansel	PSN0001093	Operation Services	Syngenta Personnel	[redacted]	Enrolled

000094

SYNGENTA

Class Roster / Sign-In Sheet

VUBS Training Record
Syngenta Hawaii
01/20/16 AK

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Linton, Dustin	PSN0001094	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Linton, Pearl	PSN0001366	Operation Services	Syngenta Personnel	Pearl Linton	Enrolled
[redacted]					
Lopez, Anthony	PSN0001633	Operation Services	3rd Party Contractor Personnel		Enrolled
Luczon, Wency	PSN0001583	Operation Services	3rd Party Contractor Personnel	1/27/14	Enrolled
Lui-Sanay, Audra	PSN0001295	Operation Services	3rd Party Contractor Personnel		Enrolled
Lul, Stephen	PSN0001656	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
~~Mainaaupo, Sanoe~~	PSN0001679	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Mangayayam, Doedy	PSN0001523	Operation Services	3rd Party Contractor Personnel	1-27	Enrolled
Manuel Velazco, Victor	PSN0001681	Operation Services	3rd Party Contractor Personnel	Victor Velazco 01/27/14	Enrolled
Martin, Dustin	PSN0001571	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Martinez, Jose	PSN0001661	Operation Services	3rd Party Contractor Personnel	Jose Martinez	Enrolled
Martinez, Vicenta	PSN0001104	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Medina, Armando	PSN0001682	Operation Services	3rd Party Contractor Personnel	See Back Page	Enrolled

000095

SYNGENTA

Class Roster / Sign-In Sheet

WPS training Board
Syngenta Hawaii
01/20/16 AK

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Medina, Elizabeth	PSN0001109	Operation Services	Syngenta Personnel	Elizabeth L. Medina	Enrolled
Medina, Nelson	PSN0001110	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Moriguchi, Justin	PSN0001113	Operation Services	Syngenta Personnel		Enrolled
Murata, Merna	PSN0001406	Operation Services	3rd Party Contractor Personnel		Enrolled
Muratake, Justin	PSN0001301	Operation Services	3rd Party Contractor Personnel		Enrolled
Nacnac, Nenita	PSN0001118	Operation Services	Syngenta Personnel		Enrolled
Nagata, Marcia	PSN0001120	Operation Services	Syngenta Personnel		Enrolled
Natividad, Minnie	PSN0001683	Operation Services	3rd Party Contractor Personnel		Enrolled
Navarro, Peyton	PSN0001619	Operation Services	3rd Party Contractor Personnel		Enrolled
Nelson, Mitchell	PSN0001381	Operation Services	Syngenta Personnel		Enrolled
Nerpio, Jeremiah	PSN0001413	Operation Services	3rd Party Contractor Personnel		Enrolled
Nhial, Muon	PSN0001666	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Niau Jr., Jay	PSN0001127	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Niau, Lincoln	PSN0001302	Operation Services	3rd Party Contractor Personnel	1/31/14	Enrolled

000096

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Plan
Syngenta Hawaii
01/2016

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Niau, Thomas	PSN0001126	Operation Services	Syngenta Personnel		Enrolled
Niau-Blevins, Yolanda	PSN0001415	Operation Services	3rd Party Contractor Personnel		Enrolled
Nishida, Sherry	PSN0001129	Operation Services	Syngenta Personnel		Enrolled
Numazawa, Ellsworth	PSN0001684	Operation Services	3rd Party Contractor Personnel		Enrolled
Oligo, Jordan	PSN0001531	Operation Services	3rd Party Contractor Personnel		Enrolled
✓ Olores, Marvin	PSN0001346	Operation Services	3rd Party Contractor Personnel		Enrolled
Olores, Micah	PSN0001414	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Oporta-Oporta, Patricio	PSN0001627	Operation Services	3rd Party Contractor Personnel		Enrolled
Orejudos, Carlina	PSN0001135	Operation Services	Syngenta Personnel		Enrolled
Oriente, Domingo	PSN0001136	Operation Services	Syngenta Personnel		Enrolled
Osorio Vergara, Mario	PSN0001685	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Pa, Kahiau	PSN0001657	Operation Services	3rd Party Contractor Personnel		Enrolled
Padamada, Gerald	PSN0001353	Operation Services	Syngenta Personnel		Enrolled
Padron, Benita Clarita	PSN0001139	Operation Services	Syngenta Personnel	[redacted]	Enrolled

000097

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Kauai
Syngenta Hawaii
01/20/14

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Paz Tapia, Angle	PSN0001686	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Perez, Margarito	PSN0001653	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Rapozo, Cullen	PSN0001149	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Renfro, Erin	PSN0001687	Operation Services	3rd Party Contractor Personnel		Enrolled
Reyes, Brock-Allen	PSN0001309	Operation Services	3rd Party Contractor Personnel		Enrolled
Ringor, Consuelo	PSN0001153	Operation Services	Syngenta Personnel	Consuelo Ringor	Enrolled
Rita, James	PSN0001610	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Rita, Mark	PSN0001688	Operation Services	3rd Party Contractor Personnel		Enrolled
Rita, Suiyen	PSN0001154	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Rosa, Rian	PSN0001439	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Ruiz, Filipinas	PSN0001162	Operation Services	Syngenta Personnel	Filipinas Ruiz	Enrolled
Ruiz, Reuben	PSN0001551	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Sabanero, Sergio	PSN0001651	Operation Services	3rd Party Contractor Personnel		Enrolled
✓ Salud, Josefina	PSN0001169	Operation Services	Syngenta Personnel	Josefina Salud	Enrolled

000098

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Book
Syngenta Hawaii
01/2014

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Salvacion, Norman	PSN0001333	Operation Services	Syngenta Personnel		Enrolled
Sam Fong, Shirley	PSN0001170	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Saulsbury, Shawn	PSN0001527	Operation Services	Syngenta Personnel		Enrolled
Sayno, Paulina	PSN0001171	Operation Services	Syngenta Personnel		Enrolled
Sayno, Ricardo	PSN0001314	Operation Services	3rd Party Contractor Personnel		Enrolled
Senk, Dewain	PSN0001174	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Sevilleja, Leonarda	PSN0001220	Operation Services	3rd Party Contractor Personnel		Enrolled
Shintani, Henry	PSN0001176	Operation Services	Syngenta Personnel		Enrolled
Silva, Clint	PSN0001332	Operation Services	Syngenta Personnel		Enrolled
Silva, Dustin	PSN0001690	Operation Services	3rd Party Contractor Personnel		Enrolled
Silva, Egon	PSN0001499	Operation Services	3rd Party Contractor Personnel		Enrolled
Silva, Robbie	PSN0001178	Operation Services	Syngenta Personnel		Enrolled
Silva-Lacro, Kith	PSN0001537	Operation Services	3rd Party Contractor Personnel		Enrolled
Silvano, Keoki	PSN0001510	Operation Services	3rd Party Contractor Personnel		Enrolled

000099

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Room
Syngenta Hawaii
01/24/14 AM

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Somera, Wilfredo	PSN0001563	Operation Services	3rd Party Contractor Personnel		Enrolled
Sumaoang, Corazon	PSN0001577	Operation Services	3rd Party Contractor Personnel	Corazon Sumaoang	Enrolled
Sumaoang, Santos	PSN0001637	Operation Services	3rd Party Contractor Personnel		Enrolled
Tachielimal, Xavier	PSN0001630	Operation Services	3rd Party Contractor Personnel		Enrolled
Talavera, Emmanuel	PSN0001660	Operation Services	3rd Party Contractor Personnel		Enrolled
Taylan, Luisita	PSN0001184	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Texeira, Thomas James	PSN0001500	Operation Services	3rd Party Contractor Personnel		Enrolled
Thaak, James	PSN0001665	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Tolbe, Preston	PSN0001410	Operation Services	3rd Party Contractor Personnel		Enrolled
Tomboc, Flora	PSN0001187	Operation Services	Syngenta Personnel		Enrolled
✓ Uri, Divina	PSN0001188	Operation Services	Syngenta Personnel		Enrolled
Velez, Roberto	PSN0001652	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Ventura, Laurelia	PSN0001191	Operation Services	Syngenta Personnel		Enrolled
✓ Villanueva, Benigno	PSN0001544	Operation Services	3rd Party Contractor Personnel	1-24-14	Enrolled

000100

SYNGENTA

Class Roster / Sign-In Sheet

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	1/24/2014 2:05 AM	Session ID:	1828
Course Version:	1	End:	1/24/2014 3:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

WPS Training Class
Syngenta Hawaii
8/19/2014

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Villanueva, Florencia	PSN0001545	Operation Services	3rd Party Contractor Personnel		Enrolled
Vinhasa, Nora	PSN0001532	Operation Services	3rd Party Contractor Personnel		Enrolled
Visitacion, Pablo	PSN0001193	Operation Services	Syngenta Personnel		Enrolled
Wilson, Tyson	PSN0001323	Operation Services	Syngenta Personnel		Enrolled
Furtado, Taylor					

WORKER PROTECTION STANDARDS

ACKNOWLEDGEMENT OF WORKER TRAINING

I hereby acknowledge having received instruction on the safety precautions to be used when working with pesticides and treated areas. The instruction included:

__ Hazards of pesticides resulting from toxicity and exposure, including acute effects, chronic effects, effects and sensitization.
__ Routes through which pesticides can enter the body.
__ Signs and symptoms of common types of pesticide poisonings.
__ Emergency first aid for pesticide injuries or poisonings.
__ Hazards for chemigation and drift.
__ Hazards from pesticides residues on clothing.
__ Warning about taking pesticides or pesticide containers home.
__ An explanation of the WPS requirements designed to protect workers, including application information and entry restrictions, design of the warning signs, posting of warning signs, oral warning and protection against retaliatory acts. (Includes how each of these subjects will be handled on your establishments).

List of site-specific training topics:
__ Where and in what form pesticides may be encountered during work activities on this establishment.
__ How to obtain emergency medical care. Including transportation, location and telephone number of the nearest medical facility.
__ Routine and emergency decontamination procedures, including emergency eye-flushing techniques and where decontamination sites are located on this establishment.
__ Availability of specific information about pesticide applications and where records of these applications are made accessible to the Worker.

I understand that these requirements are established in the Federal Worker Protection Standard Worker Safety Rules, Code of Federal Regulations Title 40 CFR Part 170. I acknowledge receiving "instruction" in the area of worker safety as listed above and in a language that I can understand.

Louis M. Abigania
(Printed name of employee being trained)

L M Abigania
(Signature of trained employee)

5/5/14
(Date of instruction completed)

Andrew Smith
(Name of trainer)

K51488
(Certified applicator # of trainer)

WPS training Records
Syngenta Hawaii
09/20/16 ak

WORKER PROTECTION STANDARDS

ACKNOWLEDGEMENT OF WORKER TRAINING

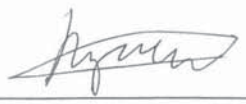
I hereby acknowledge having received instruction on the safety precautions to be used when working with pesticides and treated areas. The instruction included:

__ Hazards of pesticides resulting from toxicity and exposure, including acute effects, chronic effects, effects and sensitization.
__ Routes through which pesticides can enter the body.
__ Signs and symptoms of common types of pesticide poisonings.
__ Emergency first aid for pesticide injuries or poisonings.
__ Hazards for chemigation and drift.
__ Hazards from pesticides residues on clothing.
__ Warning about taking pesticides or pesticide containers home.
__ An explanation of the WPS requirements designed to protect workers, including application information and entry restrictions, design of the warning signs, posting of warning signs, oral warning and protection against retaliatory acts. (Includes how each of these subjects will be handled on your establishments).

List of site-specific training topics:
__ Where and in what form pesticides may be encountered during work activities on this establishment.
__ How to obtain emergency medical care. Including transportation, location and telephone number of the nearest medical facility.
__ Routine and emergency decontamination procedures, including emergency eye-flushing techniques and where decontamination sites are located on this establishment.
__ Availability of specific information about pesticide applications and where records of these applications are made accessible to the Worker.

I understand that these requirements are established in the Federal Worker Protection Standard Worker Safety Rules, Code of Federal Regulations Title 40 CFR Part 170. I acknowledge receiving "instruction" in the area of worker safety as listed above and in a language that I can understand.

VIRGILIO MANZANO
(Printed name of employee being trained)


(Signature of trained employee)

12/15/14
(Date of instruction completed)

Liko Nakahiki
(Name of trainer)

K51469
(Certified applicator # of trainer)

WPS Training Re
Syngenta Hawaii
01/20/16 AL

WORKER PROTECTION STANDARDS

ACKNOWLEDGEMENT OF WORKER TRAINING

I hereby acknowledge having received instruction on the safety precautions to be used when working with pesticides and treated areas. The instruction included:

- ✓ Hazards of pesticides resulting from toxicity and exposure, including acute effects, chronic effects, effects and sensitization.
- ✓ Routes through which pesticides can enter the body.
- ✓ Signs and symptoms of common types of pesticide poisonings.
- ✓ Emergency first aid for pesticide injuries or poisonings.
- ✓ Hazards for chemigation and drift.
- ✓ Hazards from pesticides residues on clothing.
- ✓ Warning about taking pesticides or pesticide containers home.
- ✓ An explanation of the WPS requirements designed to protect workers, including application information and entry restrictions, design of the warning signs, posting of warning signs, oral warning and protection against retaliatory acts. (Includes how each of these subjects will be handled on your establishments).

List of site-specific training topics:

- ✓ Where and in what form pesticides may be encountered during work activities on this establishment.
- ✓ How to obtain emergency medical care. Including transportation, location and telephone number of the nearest medical facility.
- ✓ Routine and emergency decontamination procedures, including emergency eye-flushing techniques and where decontamination sites are located on this establishment.
- ✓ Availability of specific information about pesticide applications and where records of these applications are made accessible to the Worker.

I understand that these requirements are established in the Federal Worker Protection Standard Worker Safety Rules, Code of Federal Regulations Title 40 CFR Part 170. I acknowledge receiving "instruction" in the area of worker safety as listed above and in a language that I can understand.

WILSON M. AGPAOA
(Printed name of employee being trained)

(Signature of trained employee)

01-05-15
(Date of instruction completed)

(Name of trainer)

451469
(Certified applicator # of trainer)

WPS Training Records
Syngenta Hawaii
01/20/16 AK

Syngenta Seeds, Inc.		FORM
SUBJECT: MEETING/TRAINING ROSTER	DOCUMENT NUMBER: RAG-01 Rev G	EFFECTIVE DATE: 3/25/13
APPLICABLE TO: NA Biological Assessment	PAGE: 1 of 1	FILE NAME: RAG-01.doc
OWNER: Brian Parrish		APPROVED BY (QUALITY MANAGEMENT): Richard Larsen

Event Description: (June Training) WPS - Field Sanitation, Heat Stress

Event Location: Amarillo, TX Facility (USAO) **Event Date:** 6/15/15

Organizer/Trainer Printed Name: Matthew McClallen **Organizer/Trainer Signature:** Matthew McClallen

Content Used: Powerpoints, Quiz

Event Type and Associated Assessments (Choose only one event type)	
Meeting Roster ☐	**Training Roster** ☐
No assessment needed	*Initial/Follow Up Training*
	Utilize associated training slide decks, task cards and assessment quizzes*.

If assessment quiz is utilized (☑) for record of training, pass/fail column is N/A.

	Employee Name & Position (print)	Employee Signature	Pass	Fail
1.	Matthew McClallen	Matthew McClallen	☒	☐
2.	Charles W. Carden		☒	☐
3.			☐	☐
4.			☐	☐
5.			☐	☐
6.			☐	☐
7.			☐	☐
8.			☐	☐
9.			☐	☐
10.			☐	☐
11.			☐	☐
12.			☐	☐
13.			☐	☐
14.			☐	☐
15.			☐	☐
16.			☐	☐
17.			☐	☐
18.			☐	☐
19.			☐	☐
20.			☐	☐
21.			☐	☐
22.			☐	☐

WPS training Record

Syngenta Hanford
01/20/16 AK

ATTENDANCE AT TRAINING SESSION

DATE: 12/14/2015 TIME: 8:20 A.M. LOCATION: USWM

TITLE/SUBJECT: WPS Training Both Worker + Handler Portions LANGUAGE: English

VIDEO OR SLIDE TITLE: WPS Video.

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign.

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Francis Abergas	8 20 AM	[signature]		[signature]
CHARLES COLOMA	8:20AM	[signature]		[signature]
Laemana Viciouiro	8:20AM	[signature]		[signature]
Aurelio Constantino	820	[signature]		[signature]
Jocelyn Angala	8:20	[signature]		[signature]
Timothy Ao[illegible]	8:20	[signature]		
EFREN GALICINA	8:24	[signature]		[signature]
Joel Castillo	8:24	[signature]		
Jason Pascua	8:25	[signature]		[signature]

WPS training Records
Syngenta Hawaii
01/20/16 ak

000105

WPS training Records
Syngenta Hawaii
01/20/16 AK

ATTENDANCE AT TRAINING SESSION

DATE: 12-14-15 TIME: ______ LOCATION: USWM

TITLE/SUBJECT: ______ LANGUAGE: English

VIDEO OR SLIDE TITLE: WPS video

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) ______

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: ______ CERTIFICATION NUMBER: ______

QUALIFIED TO INSTRUCT BY: ______

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Noel Kinney	8:20	Noel Kinney		Noel Kinney
Clifford Apo	8:30	Clifford K. Apo		Clifford K. Apo
Shiloh R. Simbre-Medeiros	8:30	Shiloh R. Simbre-Medeiros		Shiloh R. Simbre-Medeiros
Brandon Nakaahiki	8:30	Brandon Nakaahiki		Brandon Nakaahiki
Stanley Miguel	8:35 am	Stanley Miguel		
✓ Natasha Rita	8:30	Natasha Rita		Natasha Rita
✓ Arnold Bassara	8:30	Arnel Bassara		Clayton K. Lagua
✓ Gene Galicinao	8:30	[illegible]		
Aaron Rita	8:20	Aaron [illegible]		

DanLynn Kealoha 8:30 [signature]
✓ Shannon H. Bean 8:20 Shan H Bean Shan H Bean

WPS training Rec
Syngenta Haw
01/20/16

ATTENDANCE AT TRAINING SESSION

DATE: 12/21/2015 TIME: 7:00 AM LOCATION: USWM

TITLE/SUBJECT: WPS Worker & Handler Training LANGUAGE: English

VIDEO OR SLIDE TITLE: Pesticide Training for Agricultural Employees

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign/ CNB

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedeking CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Gavino Rivas	7:10	[signature]	7:50 AM	[signature]
✓ Salvador Gamorra	7:10 Am	[signature]	↓	[signature]
Samuel Carmolinga	7:10 Am	[signature]	↓	[signature]
✓ Jorse L Prado	7:10 Am	Jorse L Prado	↓	Jorse L Prado
Filiberto	7:10	[signature]	↓	[signature]
[illegible] Cerros	7:10	[signature]	↓	[signature]
William Cheval	7:10	[signature]	↓	[signature]
Jonathan Sanchez	7:10	[signature]	↓	[signature]

WPS Training Records
Syngenta Hawaii
01/22/16a

ATTENDANCE AT TRAINING SESSION

DATE: 12/21/2015 TIME: 7:00 AM LOCATION: USWM

TITLE/SUBJECT: WPS Worker + Handler Training LANGUAGE: English

VIDEO OR SLIDE TITLE: Pesticide Training for Agricultural Employees.

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign/CNB

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Pablo Alvarado	7:10	Pablo Alvarado	7:50 AM	Pablo Alvarado
Seth Nelsen	7:10	[signature]	↓	[signature]
Roberto Cardona	7:10	[signature]		
✓ NICOLAS ROBLES	7:10	nicolas Roble		
Jose Guadalupe Aguirre G.	7:10	Jose Guadalupe Aguirre G.		Jose Guadalupe Aguirre G.
nestor morales L	7:10	nestor morales L		nestor morales L
Michael Mulliner	7:10	Michael Mulliner		

000109

ATTENDANCE AT TRAINING SESSION

WPS training Room Syngenta Hawaii 01/22/16

DATE: 12/21/2015 TIME: 7:00 AM LOCATION: USWM

TITLE/SUBJECT: WPS Worker & Handler Training LANGUAGE: English

VIDEO OR SLIDE TITLE: Pesticide Training for Agricultural Employees

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign | CNB

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: KS1501

QUALIFIED TO INSTRUCT BY: HDOA

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Victor Aguilera	7:10	Victor Aguilera	7:50 AM	Victor Aguilera
Jose Adrian Mendoza	7:10			
Antonio Flores	7:10	antonio flores		antonio flores
Arturo V Sandoval	7:10 am	Arturo V Sandoval		
Romulo Romero	7:10 AM			
Omar Rivera	7:10 AM	Omar Rivera		
Alberto Soria	7-10	Alberto Soria		
Emmanuel Talavera	7:10	Emmanuel Talavera		
Mapiyid Goha	7:10	Mapiyid Goha		

000110

Entered ✓ 01/20/16 WPS training Kauai Syngenta Hawaii 01/20/16 bat

ATTENDANCE AT TRAINING SESSION

DATE: 1/18/2016 TIME: 8:10 AM LOCATION: USWM

TITLE/SUBJECT: WPS Training LANGUAGE: English

VIDEO OR SLIDE TITLE: FELS Pesticide Training for Agricultal Employees.

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA/Syngenta

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Roxanne Benjamin	8:10	Roxanne Benjamin	8:45 AM	
Bryce Kuoha'ali'i	8:10	Bryce Kuoha'ali'i		
Muon Nhial	8:10	Muon Nhial		
Chuol Padol	8:10			
James Thacker	8:10	James Thacker		
Christian Hernandez	8:10	Christian Hernandez		
Rassael Hart	8:10			
ARMANDO MEDINA	8:10			
Andrew Hernandez	8:10	Andrew Hernandez		

000111

WPS training Records
Syngenta Hawaii
01/20/16 ak

ATTENDANCE AT TRAINING SESSION

DATE: 1/18/16 TIME: 8:10 am LOCATION: USWN

TITLE/SUBJECT: WPS Training LANGUAGE: English

VIDEO OR SLIDE TITLE: FELS Pesticide Training for Agricultural Employees

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA / Syngenta

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Sidney Ayala	8:00			
Dean Kandhele	8:10			
Ken Anascual	8:10			
DEAN KOHATSU	8:10	Dean Kohatsu		
Cindy Michael Matsuura	8:10	Cindy Michael Matsuura		
RIO RIVERS	8:10			
Tyrone Jenkins	8:10	Tyrone Jenkins		
DAVE FLETCHER	8:10			
Mynor Osorio	8:10			

000112

WPS training Rev
Syngenta Hawaii
01/20/16 AK

ATTENDANCE AT TRAINING SESSION

DATE: 1/18/16 TIME: 8:10 am LOCATION: USWM

TITLE/SUBJECT: WPS Training LANGUAGE: English

VIDEO OR SLIDE TITLE: FELS Pesticide Training for Agricultural Employees

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA / Syngenta

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
✓ David Dotimas	8:00am	[signature]	8:38	[signature]
✓ Dustin Silva	8:00	[signature]		
✓ Adao morin/Saenz	8:00	Adao morin		
✓ Osvaldo Hernandez	8:00	Osvaldo Hernandez		
Lyquid camb	8:00	[signature]		
Chris McQueen	8:00	[signature]		
Carlos Molina	8:00	[signature]		
Crescencio Molina	8:00	Crescencio Molina		
Anthony Lopez	8:00	[signature]		

WPS Training Rec
Syngenta Hawaii
01/20/16 AK

ATTENDANCE AT TRAINING SESSION

DATE: 1/18/16 TIME: 8:10 am LOCATION: USWM

TITLE/SUBJECT: WPS Training LANGUAGE: English

VIDEO OR SLIDE TITLE: FELS Pesticide Training for Agricultural Employees

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA / Syngenta

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
✓ [illegible]	8:00	[illegible]		
✓ Rol aguilla	8:00	[illegible]		
✓ Robert Mauricio	8:00	[illegible]		
Rebecca Villanueva	8:00	Rebecca C. Villanueva		
Elizabeth Palama	8:00	[illegible]		
Ruben Chairez	8:00	Ruben Chairez		
Alejandro Martinez	8:00	[illegible]		
✓ Jesus Gomez Martinez	8:00	Jesus Gomez Martinez		
✓ Lonn Tuvalde	8:00	[illegible]		

6

000114

ATTENDANCE AT TRAINING SESSION

WPS training leands syngenta Hawaii 01/20/16 ak

DATE: 1/18/16 TIME: 8:10 am LOCATION: USWM

TITLE/SUBJECT: WPS Training LANGUAGE: English

VIDEO OR SLIDE TITLE: FELS Pesticide Training for Agricultural Employees

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA / Syngenta

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
PRESTON Tolbe	8:10	Preston Tolbe		
Iskander Soma	8:38	Iskander Soma		
Jesus Cuevas	8:00	Jesus Cuevas		
Roberto De Gante Velez	8:10	Roberto De Gante Velez		
Antolynn Taniguchi	8:10	Antolynn Taniguchi		
Alejandro Garcia	8:10	Alejandro Garcia		
Jovani Ortega	8:10	Jovani Ortega		
Eduardo Valdovinos	8:10	Eduardo Valdovinos		
✓ Fernando Villalvazo	8:10			

000115

WPS training Syngenta Kauai 01/20/16

ATTENDANCE AT TRAINING SESSION

DATE: 1/18/16 TIME: 8:10 am LOCATION: USWM

TITLE/SUBJECT: WPS Training LANGUAGE: English

VIDEO OR SLIDE TITLE: FELS Pesticide Training for Agricultural Employees

OTHER TRAINING AIDS (INCLUDE TRANSLATOR IF USED:) Field Sign

IF NOT "EPA" MATERIALS, ATTACHED CLASS OUTLINE

INSTRUCTOR: Emilee Wedekind CERTIFICATION NUMBER: K51501

QUALIFIED TO INSTRUCT BY: HDOA / Syngenta

NAME (Print)	TIME IN	SIGNATURE	TIME OUT	SIGNATURE
Sijifredo Heredia jr.	8:10	Sijifredo Heredia jr.		
✓ Justin Ransom	8:10	Justin Ransom		
Samuel Carmolinga	8:10			
✓ Sterling Clark	8:10	Sterling Clark		
Leonard Aguinaldo	8:10			
GLENN AYAU	8:10	Glenn Ayau		
CORAZON SARMIENTO	8:00	Corazon Sarmiento		
KALALAU RIVERA	8:10	Kalalau		
✓ Robert Lemos	8:10	Robert Lemos		

WORKER PROTECTION STANDARDS

ACKNOWLEDGEMENT OF WORKER TRAINING

I hereby acknowledge having received instruction on the safety precautions to be used when working with pesticides and treated areas. The instruction included:

__ Hazards of pesticides resulting from toxicity and exposure, including acute effects, chronic effects, effects and sensitization.
__ Routes through which pesticides can enter the body.
__ Signs and symptoms of common types of pesticide poisonings.
__ Emergency first aid for pesticide injuries or poisonings.
__ Hazards for chemigation and drift.
__ Hazards from pesticides residues on clothing.
__ Warning about taking pesticides or pesticide containers home.
__ An explanation of the WPS requirements designed to protect workers, including application information and entry restrictions, design of the warning signs, posting of warning signs, oral warning and protection against retaliatory acts. (Includes how each of these subjects will be handled on your establishments).

List of site-specific training topics:
__ Where and in what form pesticides may be encountered during work activities on this establishment.
__ How to obtain emergency medical care. Including transportation, location and telephone number of the nearest medical facility.
__ Routine and emergency decontamination procedures, including emergency eye-flushing techniques and where decontamination sites are located on this establishment.
__ Availability of specific information about pesticide applications and where records of these applications are made accessible to the Worker.

I understand that these requirements are established in the Federal Worker Protection Standard Worker Safety Rules, Code of Federal Regulations Title 40 CFR Part 170. I acknowledge receiving "instruction" in the area of worker safety as listed above and in a language that I can understand.

FLORENCIA A. VILLANUEVA
(Printed name of employee being trained)

(Signature of trained employee)

5/30/14
(Date of instruction completed)

Andrew Smith
(Name of trainer)

E5102o
(Certified applicator # of trainer)

WPS training Records
Syngenta Hawaii
01/20/16 AR

WORKER PROTECTION STANDARDS

ACKNOWLEDGEMENT OF WORKER TRAINING

I hereby acknowledge having received instruction on the safety precautions to be used when working with pesticides and treated areas. The instruction included:

- X Hazards of pesticides resulting from toxicity and exposure, including acute effects, chronic effects, effects and sensitization.
- X Routes through which pesticides can enter the body.
- X Signs and symptoms of common types of pesticide poisonings.
- X Emergency first aid for pesticide injuries or poisonings.
- X Hazards for chemigation and drift.
- X Hazards from pesticides residues on clothing.
- X Warning about taking pesticides or pesticide containers home.
- X An explanation of the WPS requirements designed to protect workers, including application information and entry restrictions, design of the warning signs, posting of warning signs, oral warning and protection against retaliatory acts. (Includes how each of these subjects will be handled on your establishments).

List of site-specific training topics:

- X Where and in what form pesticides may be encountered during work activities on this establishment.
- X How to obtain emergency medical care. Including transportation, location and telephone number of the nearest medical facility.
- X Routine and emergency decontamination procedures, including emergency eye-flushing techniques and where decontamination sites are located on this establishment.
- X Availability of specific information about pesticide applications and where records of these applications are made accessible to the Worker.

I understand that these requirements are established in the Federal Worker Protection Standard Worker Safety Rules, Code of Federal Regulations Title 40 CFR Part 170. I acknowledge receiving "instruction" in the area of worker safety as listed above and in a language that I can understand.

Roberto Cardona
(Printed name of employee being trained)

(Signature of trained employee)

1/12/15
(Date of instruction completed)

(Name of trainer)

451469
(Certified applicator # of trainer)

WPS Training Review
Syngenta Hawaii
01/20/16 DC

000118

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Records
Syngenta Hawaii
01/20/10

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	2/12/2014 7:15 AM	Session ID:	1938
Course Version:	1	End:	2/12/2014 8:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Aguirre, Reynaldo	PSN0001284	Parent Seed	3rd Party Contractor Personnel	[redacted]	Enrolled
Balauro, Alfred	PSN0001014	Agronomy	Syngenta Personnel	2/12/14	Enrolled
Bermoy, Micah	PSN0001601	Operation Services	3rd Party Contractor Personnel		Enrolled
Bernabe, Billy	PSN0001558	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Brun, Arthur	PSN0001027	Operation Services	Syngenta Personnel		Enrolled
Cano, Sergio	PSN0001430	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Celestino, Bayani	PSN0001555	Operation Services	3rd Party Contractor Personnel		Enrolled
Cline, Sundee	PSN0001040	Operation Services	Syngenta Personnel		Enrolled
Constantino, Victor	PSN0001042	Agronomy	Syngenta Personnel		Enrolled
Cortez, Tomas	PSN0001644	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Dela Cruz, Krista	PSN0001624	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Domingo, Jaime	PSN0001602	Operation Services	3rd Party Contractor Personnel		Enrolled
Duarte, Loren	PSN0001270	Agronomy	3rd Party Contractor Personnel		Enrolled
Enriquez, Jose	PSN0001647	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled

SYNGENTA

Class Roster / Sign-In Sheet

WPS Training Record
Syngenta Hawaii
01/20/16 AK

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	2/12/2014 7:15 AM	Session ID:	1938
Course Version:	1	End:	2/12/2014 8:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Ephan, Lawrence	PSN0001050	Agronomy	Syngenta Personnel	[redacted]	Enrolled
Garcia, Marco	PSN0001662	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Garma, Jane	PSN0001058	Station	Syngenta Personnel	Jane Garma	Enrolled
Girod, Michael	PSN0001060	Agronomy	Syngenta Personnel	[redacted]	Enrolled
Goha, Mapiyid	PSN0001648	Operation Services	3rd Party Contractor Personnel	Mapiyid Goha	Enrolled
Gutierrez, Gail	PSN0001064	Operation Services	Syngenta Personnel	Gail Gutierrez	Enrolled
Head, Robert	PSN0001432	Station	3rd Party Contractor Personnel	[redacted]	Enrolled
Jamorabon, Lolita	PSN0001076	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Jenkins, Tyrone	PSN0001634	Operation Services	3rd Party Contractor Personnel	[signature]	Enrolled
Kanahele, Ala	PSN0001608	Operation Services	3rd Party Contractor Personnel	Ala Kanahele	Enrolled
Kanahele, Destiny	PSN0001593	Operation Services	3rd Party Contractor Personnel	D Kanahele	Enrolled
Kanahele, Dillon	PSN0001287	Operation Services	3rd Party Contractor Personnel	Dillon Kanahele	Enrolled
Kanahele, Jacey	PSN0001362	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Kauwe, Kingston	PSN0001561	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled

000120

SYNGENTA

Class Roster / Sign-In Sheet

WPST training from Syngenta Hawaii 01/20/14

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	2/12/2014 7:15 AM	Session ID:	1938
Course Version:	1	End:	2/12/2014 8:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Kinney, Kaimanu	PSN0001417	Operation Services	3rd Party Contractor Personnel	2/12/14	Enrolled
Kua, Stanette	PSN0001631	Operation Services	3rd Party Contractor Personnel	Stanette Kua 2/12/14	Enrolled
Lauchner, Mark	PSN0001460	Station	Syngenta Personnel	[redacted]	Enrolled
Ligsay, Hansel	PSN0001093	Operation Services	Syngenta Personnel	Hansel Ligsay	Enrolled
Linton, Dustin	PSN0001094	Operation Services	Syngenta Personnel		Enrolled
Lul, Stephen	PSN0001656	Operation Services	3rd Party Contractor Personnel	Stephen 2-12-14	Enrolled
Martin, Dustin	PSN0001571	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Martinez, Vicenta	PSN0001104	Operation Services	Syngenta Personnel	Vicenta Martinez	Enrolled
Matthews, Burt	PSN0001297	Traits	Syngenta Personnel	2/12/14	Enrolled
Mattos, Loretta	PSN0001106	Agronomy	Syngenta Personnel	Loretta Mattos	Enrolled
McDavid, April	PSN0001552	Parent Seed	Syngenta Personnel		Enrolled
Medina, Nelson	PSN0001110	Operation Services	Syngenta Personnel	[redacted]	Enrolled
Nakaahiki, Shay	PSN0001121	Agronomy	Syngenta Personnel	Shay Nakaahiki	Enrolled
Nejedly, Sean	PSN0001124	Station	Syngenta Personnel		Enrolled

WPS Training Record
Syngenta Hawaii
01/20/16

SYNGENTA

Class Roster / Sign-In Sheet

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	2/12/2014 7:15 AM	Session ID:	1938
Course Version:	1	End:	2/12/2014 8:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Nhial, Muon	PSN0001666	Operation Services	3rd Party Contractor Personnel	[signature] 2/12/14	Enrolled
Niau Jr., Jay	PSN0001127	Operation Services	Syngenta Personnel	[signature] 2/12/14	Enrolled
Oligo, Francine	PSN0001133	Station	Syngenta Personnel	[signature]	Enrolled
Olores, Micah	PSN0001414	Operation Services	3rd Party Contractor Personnel	[signature]	Enrolled
Ortiz, Charlyn	PSN0001382	Station	3rd Party Contractor Personnel	[signature]	Enrolled
Padron, Arnel	PSN0001603	Agronomy	3rd Party Contractor Personnel	[signature]	Enrolled
Padron, Benita Clarita	PSN0001139	Operation Services	Syngenta Personnel	Benita Clarita M. Padron	Enrolled
Puakea, Roberta	PSN0001146	Station	Syngenta Personnel	[signature] 2.12.14	Enrolled
✓ Rapozo, Cullen	PSN0001149	Operation Services	Syngenta Personnel	[signature]	Enrolled
Rita, James	PSN0001610	Operation Services	3rd Party Contractor Personnel	[signature]	Enrolled
Rita, Suiyen	PSN0001154	Operation Services	Syngenta Personnel	Suiyen Rita	Enrolled
Rollins, Tamara	PSN0001226	Station	Syngenta Personnel	[redacted]	Enrolled
Rosa, Rian	PSN0001439	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Ruiz, Reuben	PSN0001551	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled

WPS Training Records
Syngenta Hawaii
01/20/16 ak

SYNGENTA

Class Roster / Sign-In Sheet

Course Name:	**Worker Protection Standard**				
Course Number:	CRS0001165	Begin:	2/12/2014 7:15 AM	Session ID:	1938
Course Version:	1	End:	2/12/2014 8:00 AM	Notes:	
Document Version:		Location:	Kekaha Conference Room		
Trainer:	Murch, David	Capacity:	42		

Students

Personnel Name	Number	Group	Job Role(s)	Student Signature / Date	Status
Sam Fong, Shirley	PSN0001170	Operation Services	Syngenta Personnel	[signature] 2/12/14	Enrolled
Santos, Thomas	PSN0001639	PPT	3rd Party Contractor Personnel	[signature] 2/12/14	Enrolled
[redacted]					
Stocker, Jonathan	PSN0001181	Station	Syngenta Personnel	[signature]	Enrolled
Taylan, Luisita	PSN0001184	Operation Services	Syngenta Personnel	[signature]	Enrolled
Thaak, James	PSN0001665	Operation Services	3rd Party Contractor Personnel	[signature]	Enrolled
Thompson, Tommy	PSN0001395	Nursery	Syngenta Personnel	[redacted]	Enrolled
Velez, Roberto	PSN0001652	Operation Services	3rd Party Contractor Personnel	[redacted]	Enrolled
Wilson, Estelle	PSN0001197	Station	Syngenta Personnel	[signature]	Enrolled
Wilson, Tyson	PSN0001323	Operation Services	Syngenta Personnel	[redacted]	Enrolled
CARDEJON, CHRIS			3rd PARTY	[signature] 2.12.14	
Carvalho, Noah		operation Services	3rd Party	[signature] 2-12-14	
SAMUEL Fu		operations	FTI	[signature] 2/12/14	
Ricky Carined				[signature] 2/12/14	
BRUN, MICHELLE		PARENT SEED		[signature] 2/12/14	

Classification: INTERNAL USE ONLY

Tuesday, February 11, 2014

(1)

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, Emilee Wedekind personally appeared and says:

Today on 1/28/2016 I have discussed with Ann Kam the Hawaii Department of Agriculture environmental health specialist on Kauai the specifics of the pesticides that were applied on 1/19/2016 for the REI violation on 1/20/2016. We also discussed the fields sprayed for the entire ~~tank~~ load, the PPE that the applicators wore while mixing/loading and weather information. This is also my statement from what happened on 1/20/2016.

On 1/20/2016 Ann Kam was at the Syngenta Kekaha site in response to a complaint that was filed the previous week. Ann Kam arrived on site at approximately 8:50 AM., signed in and then we started to fill out the paperwork to start the inspection. We had just went over the Notice of Pesticid Use/Misuse Inspection form and right after I signed and dated the form Arthur Brun the third party coordinator for Syngenta. Arthur knocked on the door, signaled that he needed to talk to me, he told me that a worker had walked into a field with an active REI. I asked him how many people and what field but he did not have any details. I told Ann Kam and my manager Robin Robinso

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Emilee Wedekind — Signature

1/29/16 — Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam — Signature of HDOA Representative

Environmental Health Specialist — Title

him he said he did not enter the field 312A25 because he saw the pink REI card on the sign and noticed that the REI was active. When he walked past the sign he was uncertain as to whether the field sign was up or down. Once we finished at the field sign we went back to the accessory building where one employee had started the decontamination process in the shower in the accessory building. It was a total of 37 people that needed to be decontaminated. Each employee was given a trash bag to put their clothes in, a clean Tyvek suit to wear after they went through decontamination and booties to wear on their feet because that was all that was available. The employees that wanted to seek medical attention where decontaminated first so they could seek medical attention. With the large number of employees that had to be decontaminated we needed to make additional showers available. There are two emergency pull down shows in the accessory building one in the chemical storage room and the other in an open area. In order to get more employees decontaminated I offered them to use the emergency shower in the chemical storage room. So of the employees ~~were~~ jumped at the opportunity of the second shower being available. The other emergency shower is in the open so we made a curtain for privacy the best that we could so that additional ~~the~~ employees could start to decontaminate. At one point I did mention to someone that the Permett only had a 12 hour REI but I cannot recall who I told. Jeremy Hausam at one poi called and asked me to go make copies of the MSDS/SDS sheets for all the employe I told him I could not because I was running the decontaminate process because he was not around the decon area. I believe this should have been Jeremy's responsibility since I am not the Health and Safety Lead. I had to ask other employees to bring out supplies for the contaminated workers.

Emilee Weekland 1/29/14

(2)

000125 P
Rev. 9/2(

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, Emilee Wedekind personally appeared and says:

I handed them over to Jeremy Hausam (HSES Lead for Syngenta), Eddie also brought the pesticide labels to the break area as well. At this point Jeremy Hausam was reviewing the MSDS/SDS sheets and pesticide label to see what decontamination protocols needed to be followed. From this point Jeremy determined that everyone would go through decontamination and they were going to go to the accessory building. Ann Kam, Robin Robinson and I went to check the field sign for 312 A25 when we arrived the REI sign had been put up, (C.W. meaning that it was safe to enter.) the pesticide information was posted, but the hand writing looked like it had a discrepancy, but the dates of application/expiration and products applied and length of REI in hours were correct. Employees are told that if they are insure of when they can enter a field that they need to call their supervisor before entering the field and their supervisor will get the correct information, they are also made aware of what and where the Central Notification Board is. There was a breeders car (Al Mousel) parked directly in front of field 312 A25, when we spoke with

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Emilee Wedekind
Signature

1/29/2016
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

what had happened and that I needed to stop the inspection for the complaint to go assist the workers who walked into the active REI. At the time I was under the impression that only one employee walked into the field early so I proceeded to get the appropriate decontamination supplies for one person. Ann Kam accompanied me to inventory to get a Tyvek suit, soap, trash bag and a roll of paper towels. From there we started walking out to the accessory building where the employee was going to be brought in for decontamination. On the way out to the accessory building we met up with Arthur Brin, Philip Kali, Robin Robinson and Jeremy Hausam. It was then that I found out that it was three vans of workers who had possibly walked into the field with the active REI. It was also then that I found out which field they entered into early which was 312A25 that was sprayed with Lorsban Advanced and Permethrin on 1/19/2016 at 12:57 PM with an REI that would expire on 1/20/2016 at 12:57 PM. Arthur Brin said all three vans of employees had been moved to the 313 break area. I went and showed Ann Kam that the Central Notification Board had the correct field information on it under the "Active REI" side of the board because I had moved it over there myself earlier that morning. The information was correct and had an expiration time of 12:57 PM for field 312A25. At this point Ann Kam, Robin Robinson, Jeremy Hausam and I drove out to the 313 break area. I had called Eddie Gutierrez to bring out the MSDS/SDS sheets for both the Lorsban Advanced and Permethrin out to the 313 break area. Once we arrived to the break area the employees were seated at ~~pink~~ picnic tables, I instructed all of them to wash their hands and put on a Tyvek suit. Wash your hands thoroughly. Once Eddie arrived with the MSDS/SDS sheets

Emilie Wedekind 1/29/16

(3)

Every Monday morning I go over the pesticide application schedule for the week with the Associate Scientists and Research Associates that attend. In this particular situation Philip Kali knew that there was an active REI for this particular field for Wednesday 1/20/2016, I have an e-mail from him saying that they would skip work in sections that were sprayed with the 24 hour REI on Wednesday 1/20/2016.

Emilee Wedelind 1/29/16

Emkem 01/29/16

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, Robert Gandia personally appeared and says:

On 1/20/16 approximately around 9:15-9:30 I received a text from Annette Perrera to an incident at Syngenta to come and assist her. She was notified by Arthur Brun, (Syngenta) that our employees entered a field with an Active REI. When I got to Syngenta's Station, my Global employees were going thru decontamination procedure so I went to the people that I believe was in charge of the situation. I was told by Syngenta staff that I need to take my employees that felt they needed medical attention to the emergency room (Arthur Brun). So I went the tent that Syngent had all the people that went through decontamination sit. So I asked who from Global needs to go to the emergency room; 7 people (11:00 am PT) rose their hands so I took them to the emergency room. Jeremy Hansan gave the SDS sheets of the chemicals that was sprayed and called the ER to let them know we were coming.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Signature

1-28-16
Date

Attested to at (city and state) Waimea, Hawaii

this 28th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

I dropped them off and had to go back and pick up one more person and bring him ~~back~~ Rg to the ER, ~~[illegible]~~ Rg Salvador Camarena. These are a the people ~~I brought~~ Rg that ended up at the ER. [redacted] - ICU released on restrictions day

2. [redacted] - Stayed overnight, release next day, back to work on Monday

3. [redacted] - Released later that day.

4. [redacted] - Released later that day

5. [redacted] - Released later that day

6. [redacted] - Stayed overnight, released next day, back to work on Monday

7. [redacted] - Did not stay, was released from ER.

8. [redacted] - Stay overnight, released next day. Back to work on Friday.

9. [redacted] - Did not stay released from ER.

☺ Statements were collected by me of all Global employees except [redacted], he was asleep. Josh Uyehara Rg request I go back and retake their statement by I refused. Annette and Arthur Braun went back later the evening to retake statement. (Arthur Braun did say "I needed to take my people to the hospital who needed to go."

[signature]

000130

P-63
Rev. 9/2014

HAWAII DEPARTMENT OF AGRICULTURE **ATTESTATION**	Sample Number(s)
Island: Kauai	—

Before a representative of the Hawaii Department of Agriculture, Philip Kali personally appeared and says:

My responsibilities are coordinate with my leads want needs to get done within a project from start to finish. In the case of our VT projects (Version Test) I would provide Cullen and Matt with material, labor and processes to carry out their daily tasks.

Our VT chain is as, we recieve seed from our customer on the mainland and I coordinate with my team.

Philip Kali
Cullen R. — Matt M.
Jerry K. — Billy B.
Joe S. — Divina U.
3rd party — 3rd party

Recieved a call from Cullen between 8:00-9:00 stating he has a problem, that some of his crew went into a field prior to the REI expiring. I then called Arthur and instructed the group to meet us at the break area since they were already in the vans. Arrived at the break area with Arthur bringing trash bags and Tyvex suits. It was then decided/instructed that everyone had to be shuttled to the accessory building to be decon'd. After decon individuals feeling sick were shuttled to the hospital and the rest provided statements, given lunch and sent home for the day.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Philip Kali — Signature

1/20/2016 — Date

Attested to at (city and state) Kekaha, Hawaii

this 20th day of January 2016.

Clint Kam — Signature of HDOA Representative

Environmental Health Specialist — Title

P-63
Rev. 9/2014

HAWAII DEPARTMENT OF AGRICULTURE **ATTESTATION**	Sample Number(s)
Island: Kauai	

Before a representative of the Hawaii Department of Agriculture, Jerry Kanahele personally appeared and says:

Jan. 20, 2016 while putting out rowbands in 312A-21-23... had a left over Role of Rowbands within 312A-23.. gave the rest of those bands to [redacted] to help layout so i could layout A-21 still. When i finished laying out A-21-22 had little bands for 312 A-26, walked to 26... read the sign, REI was for 12:00 J.K. 'ish on the 20th (*) Double check my fone to make sure bout the time and date. (Then walk pass 25 and happen to glance the REI and it had the same as 26). (*) by the time i noticed the sign up and people already comming out of the field. Notify my bosses and got them deci →

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

J.K. Kanahele — Signature

01/20/2016 — Date

Attested to at (city and state) Kekaha, Hawaii

this 20th day of January 2016.

Ann Kam — Signature of HDOA Representative

Environmental Health Specialist — Title

This morning got orders from my boss Cullen who got it from phil kali.

Jd Kandrch

01/20/2014

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) —

Island: Kauai

Before a representative of the Hawaii Department of Agriculture, Cullen Rapoza personally appeared and says:

On January 20, 2016 I assigned Jerry to put out Rowbands; Rowbands was all over the place so decided to get matt and orginize the Rowbands and then we was setting up Rowbands then Jerry said they messed up Jerry checked the sign and REI DID not expire, so I called phil and gathered everyone to be decined because DIDNt Know 100% who was in section 312 A25, GOT Rowbands from phil; so i assigned the work for the Day. so I have set up where Jerry is my head lead under him there are 4 leads under jerry which is [redacted] and these individuals are able to put signs up @ fields

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Cullen Rapoza — Signature

1/20/16 — Date

Attested to at (city and state) Kekaha, Hawaii

this 20th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist — Title

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) —

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, Jeremy Hausam personally appeared and says:

as I was doing a dily walk with the site health team I was stoped By Robin Robenson and Emilee wedekind and was told that there was a REI Violation in the field Ann Kam from HDOA was also with them. we all went to the field. ~~[illegible]~~ when we got to the field all the employees were at the Break area (37). Every one Put on tyvek suits and were sent Back to the station for decontamination. we used the one permanent Shower in the Accenge Building and the two emergency showers to decontamate everyone. we chose to decon every one do to the uncertenty of who may have acully entered the field. ~~[illegible]~~ When I was back at site and the decon process was under way I called Poison Controle about decon Procedures HDOA listed on label or SDS they told me to call the manufactures 24 hr hotline I called and they said Shower with sope and water and wash the trucks out with soap and water I also Called Barbra Brook with HDOA to ask the Same information I got her voice mail and left a mesage. as People were getting decontaminated I went and Printed off the SDS Sheets for all the employees Involved. as the employees got decontaminated they went to the Break area, Some Employee said they didn't feel well so they were

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[signature] — Signature

1-29-16 — Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam — Signature of HDOA Representative

Environmental Health Specialist — Title

Taken to KVMH. the Global Ag representative drove the 9 Global Ag employees to KVMH and Arthur Brian drove the 1 HIemployment worker. Before the workers left I gave them the SDS sheets and told them it was there call-in Arthur Brian took the chemical labels and SDS to give to the hospital. I called KVMH and told them that 10 workers were coming in and that they had worked into a oiled approximately 20 hrs into a 24hr REI and gave them the chemicals. as everyone completed decon at the Brake area I gave them the SDS sheets and told them that it was the information about the chemical that was sprayed in the field and that was to take care and to read it over. they were all instructed on how to wash there Cloaths when they get home. (wash alone with hot water and soap then run the washer one cycle with hot water empty) the rest of the workers were sent home. I forgot to add in as people were at the Brake area the were having there statments taken. [redacted]

On 1-29-16 I provided HDOA with the traing records for all the affected employees

1-29-16

P
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) —

Island Kauai

Before a representative of the Hawaii Department of Agriculture, Arthur Brun personally appeared and says:

ARTHUR BRUN THIRD PARTY COORDINATOR.
RESPONSIBILITIES - ~~SEARCH TO~~ TO COORDINATE WITH EMPLOYMENT AGENCIES TO HIRE TEMPORARY STAFF AND HANDLE ANY DAY TO DAY ISSUES.

ON 1-20-16 I BROUGHT [redacted] (AVC HI EMPLOY STAFFING MANAGER), [redacted], AND I THINK HIS NAME WAS [redacted] TO KVMH ER. I ALSO GAVE DR. FUKINO THE LABELS AND MSDS SHEETS FOR THE CHEMICALS THAT WERE SPRAYED.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[signature]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

Well first of All we Start with our morning meeti with every body. M.O ~~[redacted]~~ wat needs to be done. So as we approched the field Well I Seen that the field M.O ~~[redacted]~~ Sign was down Sum ~~body~~ Jump the gun and started to Put up the Sign and didn't Know who did Check the time and date, and So I Continune working. I was in field 312A 24 finishing up Putting out the row bands. As i was walking out of M.O ~~field~~ field 24 Jerry comes to me and Said did you Check the field Sign for 312A25 and i Said yes I DiD and I ~~hold~~ him that Some body been Put up the Sign.

I was in field 24 - walking out to the front to check the Sign But the field Sign was up all ready up.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Qm Kaya
Signature of HDOA Representative

Environmental Health Specialist
Title

So as we seen that the rei date was still efected. So we drove to the tents and started to put on the rack suite and went to the building to take a wash down in the sprayer building.

well i didn't get sick or go to the hospital. and didn't never go out any meeting.

[redacted] 1/29/16

000139

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I was working putting the rowbands from section 312A-24 -24. At the end of Section 312A-24 where I finished Hanging rowbands, I looked at the next section, 312A 25. It was almost occupied w/ the other crews from the front. Since I saw the person putting the rowbands for each range, already putting the rowbands to the rows, of the very last range of section 25, I jumped to the range before him a hang rowbands too. I finish the range. I walked to the front & found [redacted] I helped her finished her range. Both of us walked to the front & heard about the problem. Two of us checked the sign of 26 but re-entry is not yet reached. We left it down. We came to the building & showered as we were told to were suit. This happened 1-20-16. [redacted] was the one laying the rowband for all the ranges. We were given directions how to wash our cloths.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

000140

P-
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says: Jan. 20, 2016, Went in the field to help put up rowfonds on field Section 25. I went inside cause there were people already inside the fold. After that we went to the break area & let us put the Tyvex suit & wash our hands with soap & brought to the accessory bldg. & took a shower with hot H2O & soap. Use a new tyvex suit & throw away the previous one they gave us. Use only the Tyvex for go home & booties. The clothes I had on before, I put it in the trash bag & they told us to wash it with soap & hot water & after wash run the washing machine in full cycle w/out anything on it except H_2O.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kem
Signature of HDOA Representative

Environmental Health Specialist
Title

000141

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, Matthew McCLallen personally appeared and says:

On the morning of 1/20/16 mm Cullen and cl advisee the ~~AM~~ VT group in the morning meeting. Part of which was explaing to the De-reg. crew to Row-band mast fields. The fields ~~#'s~~ were given to their crew leader. cl then instructed the Regulated crew leader ~~[redacted]~~ mm to do a side task for me. cl then accompanied Cullen to check on the De-Reg crew. Upon arrival to the fields, the crew leader (Tony) informed us that mm there was a problem with the row bands. ~~[redacted]~~ We then proceeded to work on fixing them in the tailgate of a truck. after a while Cullen walked away. When he reappeared he told me to get in the truck. We started driving to the break area. On the way there he told me several employees had walked into a field before the REI expired. During the de Contamination process cl transported employees between the accessable bld and the break area.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Matthew McCLallen
Signature

1/29/16 mm
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

000142

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Island: Kauai

Sample Number(s)

Before a representative of the Hawaii Department of Agriculture, personally appeared and says: Cullen Rapoza

On January 20th Jerry the crew lead told me and matt that Rowbands were not made ~~per~~ CR per section so Matt and I started to orginize the bands so as we were doing that Jerry noticed that the sign was up but REI DiD not expire so at that point I asked who was in section 312A25 and no buddy could 100% ~~tell~~ me that they went in to the field so at that point i made the call that everyone is getting deconed ~~get~~ CR first thing i found out i called phil Kali and he contacted the right people

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Cullen Rapoza
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

• I saw someone putting up the sing so I never went to check the date and time that we suppost to go in. I just warked into the field to continue working. into section 25
When we all finish doing what we suppost to be doing we got ~~our~~ our break time at 9am and doning my break my boss went to ask all the people from my van if we had enter into section 25 and that everybody had to come to the station because we were all contaminate But at first we went to the Lunch station to wash our hands, ~~face~~ arm and face with a lot of soap and put on a white suit so we didnt keep getting contaminated. Then we all came to the station to take a shower and put all your clothes and shoes into a clear ~~bag~~ black bag and when we finish they gave us another white suit. After that I went to the hospital because I was feeling really sick. I had many symtom feelings. Headache, dizzy, nauseas, ready weak and sleepy The nurse and doctor started treating me and asked

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

my SYMPTOMS.

my symtoms. spend the rest of the day at the hospital and was realese at 6pm went home feeling much better than when I arrived at the hospital. The doctor gave me a note saying that I wasnt able to return to work until Friday 22 of January.

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

~~Time:~~ 945/10am On January 20th, 2016 I was on my first day in the field, 2nd actual day (1st being 5 hr orientation) I believe we were shake bagging and my staples had fallen onto ground, a local lady [redacted] & I believe our lead (Terry) from Syngenta came over towards my exact location, which was field #25. I finished what I had believed to be my row in said field. I exited and saw the warning sign was up (meaning it was ok to be in that area). I felt thirsty and went towards my crew van. As I took a break I began to drink water & feel the beginnings of a massive headache. We then all of a sudden were informed to move to a certain location. Put in TyVek Suits in field, transported to Syngenta Station, made to shower, another Suit, then to Hospital. I was later admitted. Mig

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

January 29th, 2016
Date

Attested to at (city and state) Kauai, Hawaii

this 29th day of January 2016.

Lun Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

"Bites" (Robert Gardea) from Global Ag. drove me to KVMH where I was examined in E.R. My symptoms began to increase, nausea was increasing, an I later found out I was having a severe migraine headache. My leg (Right) started to hurt and I was given saline fluid thru IV. Morphine & Zofran. 2mg @ 1st of Morphine every 2 hours, then upped to 4mg and a shot of Toradol thru IV. I still got the bad headache which I've never been treated for let alone asked to be seen for. I've had headaches but nothing for me to be seen for by a dr. By now we were in Hospital, released next morning about 9:45 am - 10 am. Was informed to follow up w/ Dr. Slager (as an appt) should be set once released yet I been told there is "NO FOLLOW UP" appt. I still am experiencing massive Headaches! Nausea periodically, daily, multiple times are. The headaches light, noise, too much movement @ times are rough.

[redacted]

11-29-16

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says: I request [redacted] to write my statement:

I work for Global Ag Services, Inc. On 01/20/16 at about 8:30 AM I was in field 25 at Syngenta Hawaii, Inc in Kekaha, Hawaii. My lead, Jerry Kanahele + a nena told me to rubber band the field. There were people already in field 25. I went in the field about 30 minutes. just at 9:00 AM we took our break + lead Cullen asked me if we were in the field. I drank water then felt like vomiting. Then they took us the whole group + my eyes watering + burning and 1/2 of my face was burning. They put us in white suits then they drove us back to the headquarters + my eyes feeling worse. Took a shower at a build in the back w/ very little water. Then we put a different suit on. My eyes & were watering + burning + my face had a tingling sensation. Ii to of Global took us to the hospital in Waimea. I don't know what WPS is but we watched videos. On 01/21/16 I was still in the hospital. My eyes were on fire, 1/2 of my face was on fire and I had diffs ally breathing. I returned to work on 01/25/16 at 9:00am OVER

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Env. Health Spec
Title

my eyes were twitching + 1/2 of my left side body was numb. ~ 11:00Am I took a break. I was then pulled from the field + brought back to the headquarters. Arthur told me I need to go to the hospital. She, Annette Perreira of Global picked me up + took me home. at about 7 pm Annette told me I had an appointment for 01/27/16 at the doctor. They didn't take me to the hospital on 01/25/16 + my hand is stiff.
On the 01/25/16 I was field bagging in field 23 + 24.
I told Annette if it happens again I'm calling 911.
Syngenta gave me a MSDS for Coragen Advanced and for Permethrin. To this day I still don't feel like normal.
[redacted] 1-29-16
I entered the field 25 from the front. Others entered from the side because we were rubber banding fields 21 to 25
[redacted] 1-29

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted] personally appeared and says: At about 8:00 am we drove to field 22 or 23. Our supervisors gave us instructions and showed us what we where going to be doing. We were rubberbanding the sections. The supervisors assigne us rows and we kept walking to the right until we ran out of band Once we got done with our row, the supervisors would assign us our next row or we would help out others. We take a 10-15 min break usually around 9-9:30 am. Once everyone started walking out of the fields is when I walked out, when I was walking out of field 25 I noticed that the fields across, had their signs down saying "Do Not Enter." At the time I didn't think anything of it, we went to the vans and took our break and thats when I started hearing people say we walked into a field that was sprayed with pesticide. They drove us to the lunch area out in the fields, thats when I realized that I walked into a pesticide area because people where saying it was field 25 we then had a little 10-15 min meeting because syngenta was trying to figure ou what happend. They then gave us white suits to put on over our clothing. On the ride back to the office is when I started feeling light headed and started getting a headache. They had us wait for showers. Once I got into the shower there very little water coming out. They gave us germ to clean our hands. After that they drove us to the ER. At that point I had a major headache, nausea, diarrhea, & sinus pressure. I hardley eve get headaches so I knew something was going on.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

The doctor gave me medicine for my nasea and gave me morphine for my headache. The morphine helped but the headache kept coming back. I stayed overnight at the hospital and was released the next day. The prescribed me some pain medication to help with the headache. I still get headaches to this day. ~~Dont~~ When this all happend it was my second day at the job. I don't know who exactly was the "crew leader" at the time. I feel that Sygenta was trying to help but it seemed like they where running all over the place. I was released back to work the 25th. We were seen by doctor Slegle.

[redacted] 1/29/16

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

ON 01/20/2016, I SAW PEOPLE IN FIELD 25 AFTER I WAS DONE ROW BANDING FIELD 24, I WENT TO ASSIST MY CO. WORKERS BEFORE OUR MORNING BREAK AT 9:00 A.M. COLLIN TOLD US TO GO TO THE BREAK TENT TO PUT ON THE TYVEK, THEN WENT TO THE ACCESSORY BUILDING TO TAKE A SHOWER WITH SOAP. PUT ~~ARTHUR BR~~ A CLEAN TYVEK ~~SUIT~~ AND BOOTY ON. ARTHUR TOOK ME TO THE HOSPITAL AND WAS THERE 6 HRS TIDEN RELEASE. PUT CONTAMINATED CLOTHES & SHOES IN TRASH BAG AND

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

OVER →

[redacted]
Signature

01.29.2016
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

THRU IT AWAY — RETURNED TO WORK 01.22.2016.

[redacted]

01.22.2016

HAWAII DEPARTMENT OF AGRICULTURE **ATTESTATION**	Sample Number(s)
Island Kauai	—

Before a representative of the Hawaii Department of Agriculture, [redacted] personally appeared and says:

I asked [redacted] to write for me.

I work for Global Ag and was working for Syngenta on 01/20/16. I am not sure what Field I entered. I worked with [redacted] that day. I showered and changed into a white suit. I went to the Hospitol - Bitos From Global Ag took us. Paperwork for pesticides we were ~~exposed~~ provided SC to ~~were~~ are SC ~~given to~~ are SC us by Cullen. My head had compression, but no pain + my nose was dry + hot feeling. I was admitt to KVMH - No nausea or vomitting.

My vision was weird - My left eye was moving or twitching They took my symptoms + drew blood. I was in hospital for 12 hours. - No meds were given to me. I feel OK today. There was a safety meeting the next day.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

000154

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

on the date of the incident Jan-20-16 I was called out of the field
It was then explained that there were some FT's that walked into a field that had a REI that was still active. It is to the best of my knowledge that I did not enter the field. But to be sure that there was nothing wrong with me I was told to go to the hospital to be checked out incase of anything serious

While in the field I wear face cover and a coverall so I was well protected in case, Any exposure to the chemicals used on the plants.

When we arrived to Syngenta I had a slight tingle on my lips and cheeks That went away about 1 hour after we got to the hospital

I was released about 2 hours after arrival
I wesnt giving any medicine nor any blood taking
In the field I take my orders from Collin and Jerry
The next day we had a morning meeting to explain proper field enter...
I was giving the chemical sheet of exposure by Betos
Beto Drove me and Three others to the hospital

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

Jan 29 16
Date

Attested to at (city and state) Kekaha Kaua'i, Hawaii

this 29th day of January 2016

Qun Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted] personally appeared and says: I'm goDal Ag worker it was my frist day at Signele They gave us a oregtaion on how to work Safely in that Feild me Speafidy didn't know the crew leat and I was just following the work flow and thats how I ended up in Feild 25 in the beggining of day we where assign partners and we were told just to the follow the work flow my partner was [redacted] and taken from the Feild By Dean and to hostpi[tal] By veto from goDal Ag I had red rashes up on my Arms and legs I was in the hostpial for about 3 hours then me and [redacted] were realease They didn't drawn any blood they just took my vitals and thats it

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

[signature]
Signature of HDOA Representative

Environmental Health Specialist
Title

P.
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) ———

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

me and my brother [redacted] Provided Ann with papers
Provided in the Hospital upon dicharge they gave
us papers that say consent to release protected
Health information to the public the woman that
gave us the paper did not explain and just told
us to Sign ~~[illegible]~~ CH were the ~~[illegible]~~ CT1 x⁵ are in no way
did i want my medical records released to the
public At hospital i went in with dizzy/Nausea they
drew blood stock IV in me and gave me morfin
I Know because i fell asleep

[redacted]

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

01/30/14
Date

Attested to at (city and state) Hanapepe, Hawaii

this 30th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

P.
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

On 1/20/16, my second day working for ~~agronomy~~ A.H Global Ag. we went out to ~~[redacted]~~ A.H Syngenta field when it was time for work we followed everyone onto field "25" ~~[redacted]~~ A.H we were working on that field for a few hours. then immediately we were pulled out for an emergency meeting where we find out we were exposed to a chemical, they make us wash ~~[redacted]~~ A.H off and change into hazmat jumpsuit. everyone was saying an expirienced elderly had put up the sign where we would know it said danger. Only a few of us were transported to the hospital they ran a couple tests and couldnt release us until later that night the entire time we were in our beds hooked up

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/30/16
Date

Attested to at (city and state) Hanapepe, Hawaii

this 30th day of January 2016.

Ann Kam
Signature of HDOA Representative

Health Environmental Specialist
Title

to a A.M I.V after a while they released
A.H
us cause we seemed to be feeling better
but since then [redacted] has had rashes
on both arms and me I.V had been
feeling I havent really been shewing any
symptoms. from 12pm to 12:30 am, and we
A.H
were accompined by bites. my symptoms
were stomach and throat ache, light head
and irritated eyes. At the hospital A
nurse [redacted] A.H had came and told us to sign
some papers, us giving them consent to
release our medical records to the public
which we didnt realize until, 1/nolia.
I realesed that information to Ann.

[redacted]

1-30-14

P.
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) —

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, EDGAR A. GUTIERREZ personally appeared and says:

ON 1-19-16 AT ABOUT 12:57 pm, BEFORE ENTERI EAG
312
FIELD A25 WIND READING WAS 6-8 FROM SSW. SIGN WAS DOWN EAG
ALREADY SO APPLICATION WAS MADE. SPRAY WENT OFF GREAT. I EAG
WORK WITH FRED BALAURO HE PUTS DOWN SIGNS AND PUTS
STICKERS ON SIGNS SO THAT APPLICATIONS ARE DONE IN A SAFE
MATTER. FOR WIND READING I USED AN ANAMOMETER AND FOR
WIND DIRECTION EAG THESE ARE OUR PROCEDURES EVERY DAY.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Edgar A. Gutierrez — Signature

2-3-16 — Date

Attested to at (city and state) Kekaha, Hawaii

this 03rd day of February 2016.

— Signature of HDOA Representative

Environmental Health Specialist — Title

P.
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) —

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, ALFRED B. BALAURO personally appeared and says: On January 19 2016 I was involved in putting the Re-entry sign down Before Spraydy in Section 312A25 at 12:57 pm. I posted the Sign with a pink label with the time of 12:57 as the time of application and the date of Jan. 19 the REI Time was 24 hours and the posted Reenty time was Jan. 20th at 12:57 pm. The label ~~After Posting the Field was Sprayed~~ Was on the right hand upper corner of the sign.

I put the signs down(open) before Eddie Gutierrez spray the Field. - After the sign was down I vacated the area and Eddie Gutierrez proceeded to spray the Field 312A25.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Alfred B. Balauro
Signature

Feb 3rd 2016
Date

Attested to at (city and state) Kekaha, Hawaii

this 03rd day of February 2016.

Ann Kem
Signature of HDOA Representative

Environmental Health Specialist
Title

Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, Johnny Uyehara personally appeared and says:

Regarding transportation of Global Ag employees, we did agree with the contractor that they could provide general transportation services using their bus and driver, as we did not have sufficient transportation capacity for our peak workload

Jimmy Hamm provided the following:

- SDS sheet for Carbon 8 permethrin
- Clothes washing instructions provided to workers
- List of REI violations in the past year

We are still conducting our internal investigation

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Signature

2/3/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 03rd day of February 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

P-
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, Robert Gandia personally appeared and says:

In regards to the 1/20/16 events at Syngenta - Annette called me to come to Syngenta because some of our people went in an active REI field and we need to take statements. When I got there the scen was chaotic, I saw Matt McClellan drive people who went through decontamination out but I did not know where he was going, I assumed he was taking them to the Hospital, so I asked Arthur Bra how many people went to the hospital, he said none, and I needed to take my own people to the hospital. Then I found out that Matt was just bringing them to the tent at the front of the station. I got one of global ag vans that wasn't being used for transporting workers to the field and took it to bring our global workers to the hospital that needed attention.

From my understanding, Syngenta asked global if they could use our vans to transport workers to the field so Wally de offer our vans, those vans are use by global for our mainland people that are staying at houses that we rented for them to get to

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Signature

02/03/16
Date

Attested to at (city and state) Waimea Hawaii

this 03rd day of February 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

syngenta in the morning. It is their main transportation while they are here and also used by Syngenta to transport workers to the field. 2 of the vans were involved with the REI incident, and needed to be decontaminated. I don't know who decontaminated the vehicle. All items in the vehicles had to stay in the vehicle, Syngenta did not allow people to take their lunches or personal belongings. That is why Syngenta bought everyone lunch for all those that couldn't get their stuff out of the vehicles.

This happened around 11:00am when I took 7 people to the hospital, later got a call from Annette to come back to Syngenta because [redacted] wanted to go to the hospital because he was dizzy. When I was driving out from the ER and passed Arthur Brun on his way to the hospital. I picked up [redacted], took him to the ER but Arthur wasn't there, I was told by Shandell Lau that Arthur left, to go pick up lunch. No Syngenta personnel or manager was at the hospital and I was there till around 4:00 pm.

02/03/16

P-63
Rev. 9/2014

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, Annette Perreira personally appeared and says:

Regarding early entrance into Field 312A 25, I received a call from Arthur Brun at about 9:10 am in Jan 20, 2016. He stated that some of our employees entere a field too early and they are being brought back to ~~station~~ AO to decon. He aske that I meet him there. Upon arriving, I was waiting w/ Sherdell Lau, a wo arrived, several field worker came out, then was told to go back in & they drive to auxilary building, I went there & they was having everyone remove some of the clothing & personal items, put in a trash bag, wait their turn to shower or wash off. Syngenta personael went to get supplies - booties & suit for them to put on. Arthur told us to bring our employees that needed medical attention to hospital. Bitos took our employees while I stayed back. I noticed Syngenta employees (mgrs) did not know whether employees should keep their bags with them or leave at Decon station. Then someone said they can eat there lunch, someone said they cann it was unsure. Syngenta got lunches for everyone. During that time I was asked to assist w/ getting ~~statements~~, I later made copies & gave them to Syngenta, Syngenta called a mtg @ 2:00 to review events, At 4:30 they asked for me to get ~~statements~~ from those in hospital. I did and Arthur picked it up from me @ 8:30pm, when I took the statemen from those in hospital, I made sure they all had a copy of the labels. Syngenta told me to ask specific questions: what field did you enter, what field did you end up ~~at after~~ AO when supervisor called everyone out, who was your ~~partn~~ part over

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Signature

2/1/2016
Date

Attested to at (city and state) Waimea, Hawaii

this 01st day of February 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

Who was your supervisor, who were you working with, Bites get the statements from those in hospital but Syngenta was not satisfied with the information,
While the decon was going on, I spoke to Cullen, he showed me the "Tier One" spreadsheet they receive, it showed
312A21 - 24
312A31 - 37
He said if field is not listed than they don't go to that field.
He said crew leaders were Jerry Kanekahe, [redacted], [redacted], [redacted], [redacted] and [redacted].

There were 21 of Global ag employees involved and 9 were sent to hospital,

[redacted] 2/1/2016

Rev. 9/2(

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, Joshua N. Uyehara personally appeared and says:

Printed typed & Signed Patient separate

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

Signature

1/29/16

Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist

Title

Statement for HDOA

The following events take place on 1/20/2016

At 9:55 am, Carl Hamrick sent me an email notifying me of the situation

Shortly after 10:00 am I read the email and walked back to the accessory facility to monitor the situation

While at the accessory facility I generally observed the response to the incident and provided direction where necessary to facilitate the response

After all employees had been through the shower and taken to the waiting area I verified that follow-up actions were being taken, lunch was being provided to the individuals who no longer had immediate access to their belongings, etc.

General Statements Provided on 1/29/2016

Discussion with:
Ann Kam, Hawaii Department of Agriculture Environmental Health Specialist
Steven Ogata, Hawaii Department of Agriculture Environmental Health Specialist

Ann delivered the formal notice of inspection, which I signed.

Took note of what information was being requested and identified the individuals best equipped to answer those questions, and how to facilitate a productive inspection.

Described procedures around WPS and preventing REIs:

- Field layout
- Field sign, notification stickers on sign, WPS central notification board, other ways that workers in the field are notified of the product that has been applied to the field

1/29/16

Joshua Uyehara

Syngenta Hawaii Continuous Nursery Site Manager

000168

P-
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

Wasn't Sure What was going on. I was following My Partner and everyone else. Seen Robe Bands already set up so followed and Put it out. Not Sure what day it was but we was in field 25 setting up Ride Bands. Started from 21 ended up at field 25. Looked up and a bunch of other was telling us to get out of the field. Robert drove us back to the station with the sprayer to take a Shower we ups training. Jan 21 had a meeting. When over How and where to enter the field and Gaid how to Read the REI. Didn't have to go to the hospital.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I Was at Fiuld Working Whit crybory Felow erybare When They say we went To Nom 21 Fiuld AND Thas What Happen 1/20/16 it Happen After 9:00 or 9:15 Am We STAN AT Fiuld 24 and end at Fiuld 25 Gerry Was The supervisor at The Time a Bunch of people Tell us To GET Out of The fiuld Deen or Roberto pack of Go To The Shower WPS Tranning Jenvary 21 it Is Was a Regular meting The sprayer Biulding Rearbanding I Dint nat Have To Go To The Hospital

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of Janvary 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

P.
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I asked [redacted] to write for me and [redacted] translated for me.
I work for Global Ag and was at Syngenta in field 25 on 01/20/16. - This was my first day in the field. My partner was [redacted]
I do not know who crew lead was - I was just following work flow. Dean Drove us back to wash off. I did not get sick from being in the field and did not go to hospital. I was provided information on what I was exposed to by Jeremy Hawsom. I am grateful nothing happened.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I asked that [redacted] write for me and [redacted]
was the interpreter.
I work for Global Ag but am at Syngenta. On 01/20/16
I was in Field 25 working with another man. It was
my 3rd day on the job and am not sure who the
lead was - he just followed into the field. I received
WPS training but am not sure from who. Dean drove
us back to get showered. I showered and took off
all my clothes. I had to wash my own clothes - they
did not provided instruction but told us - I am not sure who.
I did not get sick from this episode.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

01/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

P.
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I was working in the field for Global Ag my first week working for them the second day on the job, ~~At~~ SC This was located at Syngenta. While working I was told we needed to get out of the field. I wasn't in field 25, but they still decon me. The next morning we had a meeting as a whole company, and it was over how we need to be safe and more aware of what the signs say. I felt the meeting was useful. Our crew leader is Callin.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

01/29/2016
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) ~~Shannon H. Ba~~ ~~H.I. Employment~~ SHB

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says: Regarding the ~~drift~~ (so) incident that happened on 1/20/2016: I was not one of the crew members who entered the field, but as a precautionary measure SYNGENTA ~~decided~~ (SHB) decided to decontaminate 4 vans of workers. We left the field, returned to the accessory building to shower, changed into tyvek suits and booties. We were given paperwork on the pesticides and everyone was offered a ride to the hospital. Syngenta has been very accomodating and concerned about this situation. I, myself, did not have any symptoms nor did I have to go to the hospital. ~~[struck out]~~ (SHB) ~~[struck out]~~ (SHB) ~~[struck out]~~ (SHB). There was a meeting the next morning ~~[struck out]~~ (SHB) reminding us that it is every persons responsibility to check ~~[struck out]~~ (SHB) field signs before entering the fields.

I hereby [redacted] ement is true to the best of my knowledge and belief

Signature: [redacted]

Date: 1/29/16

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative: Ann Kam

Title: Environmental Health Specialist

000174 P-
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE **ATTESTATION**	Sample Number(s)
Island KAVAI	—

Before a representative of the Hawaii Department of Agriculture, [redacted] personally appeared and says:

~~I did not go in (25) but I had to shoot because~~

on January 20th 2016 I was shootbaggin in field 24 and when I was almost done shootbagging I was tolde to stop. ~~and they and we~~ and we had two shwoer. ~~~~

did not ENTER 25

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted] Signature

1-29-16 Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

[redacted]

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

NOT ENTER SECTION 23 I WORK IN SECTION 23 ONLY - WITH MY CREW LEADER JERRY. KANAHALE.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

JAN. 29, 2016
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

Rev. 9/2(

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s) [redacted]

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I [redacted] did not enter field 312 A25 on Wednesday January 20th but I took the Syngenta Safety procedure and follow instruction with Syngenta's safety officer who is Jeremy Hausem

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Dan Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

P-
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

On January 20th 2016 I was shotbagging in field 24 and when I was almost done shotbagging I was told to stop. ~~I~~ bb [redacted] was my partner. Then I come back to the station I put my clothes in a garbage bag. And then I took a shower. I threw my clothes in the garbage. And I work for Hawaii Emplyn

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kem
Signature of HDOA Representative

Environmental Health Specialist
Title

Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I am working for Glovo Compan
2016. 1-20-16. I work for
Syngenta. I was in 25. Cela
I took a shower

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016

Signature of HDOA Representative

Environmental Health Specialist
Title

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I work for Global Syngenta 1-20-16
I dindgo in section 25 I steal in 23 sectio

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

01/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Yam
Signature of HDOA Representative

Environmental Health Specialist
Title

P
Rev. 9/2(

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I was working in the ~~corn~~ corn field 1-20-2016
but I was not enter at section 25

Hi Employment

I hereby affirm that the foregoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kem
Signature of HDOA Representative

Environmental Health Specialist
Title

P
Rev. 9/2(

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I work Gibal AG on January 20th
2 did not enter field 25. They made
me shower at Syngenta

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

P
Rev. 9/2(

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island
Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I am on Hawaii Employment. On jan. 20 [redacted]
I worked on Syngenta field. I was then
on Field 23. I did not stay on Field 25. They
made me shower with soap and water.
We removed all our clothings then they let me
use a white over all clothes.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

Jan. 29 2016
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title

P.
Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says:

I work for Global Ag Services, Inc.
as Field Worker.
on the 20TH of January 2016, I
was one of those doing shoot bagging
at Section 23. I was not yet
or I have not reached Section 25,

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

01/29/2016
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Lynn Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

HAWAII DEPARTMENT OF AGRICULTURE **ATTESTATION**	Sample Number(s)
Island Kauai	

Before a representative of the Hawaii Department of Agriculture, [redacted] personally appeared and says:

I am working for GroBal compa[ny]
1-20-16- I work for syngenta
I wasT in 25 feld.
I Took a Shower

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

x [redacted] — Signature

1-29 16 — Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam — Signature of HDOA Representative

Environmental Health Specialist — Title

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

—

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted] personally appeared and says: I work for Hi employment and was working in a Syngenta ~~fited~~ field on 1/20/16 And was not in field 25 They made us ~~sh~~ LI shower in a pesticid storage room

The crew lead that morning was Jerry K

That was my third day of work

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1/29/16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam
Signature of HDOA Representative

Environmental Health Specialist
Title

P-6
Rev. 9/201

HAWAII DEPARTMENT OF AGRICULTURE **ATTESTATION**	Sample Number(s)
Island: Kauai	

Before a representative of the Hawaii Department of Agriculture, [redacted] personally appeared and says:

1-20-16
I doing row in Field 24 in 25

we shower w/ soap and water to do accessory Baling and we suit and going Home we wash in Hot water our clothes 2 time

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted] — Signature

1-27-16 — Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kam — Signature of HDOA Representative

Environmental Health Specialist — Title

Rev. 9/2(

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says: I've been working for Globle, Eg for 2 days at Syngenta I had WPS field traning from Philip Kali 01-20-16 It was ~~the~~ first day I whent into the field I whent into field 21 and was finishing my line I walked out and was walking into field 22 then I was rushed out and got doven to the tents to have a meating about field 25 ¢allen.

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Ann Kem
Signature of HDOA Representative

Environmental Health Specialist
Title

Rev. 9/20

HAWAII DEPARTMENT OF AGRICULTURE
ATTESTATION

Sample Number(s)

Island

Kauai

Before a representative of the Hawaii Department of Agriculture, [redacted]
personally appeared and says: I JK have been with Global Ag @ Syn for only 2 days and was given the proper WPS training the first day from Philip Kali. JK We all were sent home and our 2nd day was the first day in the field. We were all rushed out of the fields at once they said JK was a contaminated field. I know I didnt go into it, but just from being in the van with everyone else they took JK precautions and treated everyone. I took a shower and was given a tyvex suit by my supervisor JK Colon. I JK now have

I hereby affirm that the aforegoing statement is true to the best of my knowledge and belief

[redacted]
Signature

1-29-16
Date

Attested to at (city and state) Kekaha, Hawaii

this 29th day of January 2016.

Signature of HDOA Representative

Environmental Health Specialist
Title